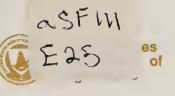
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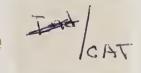




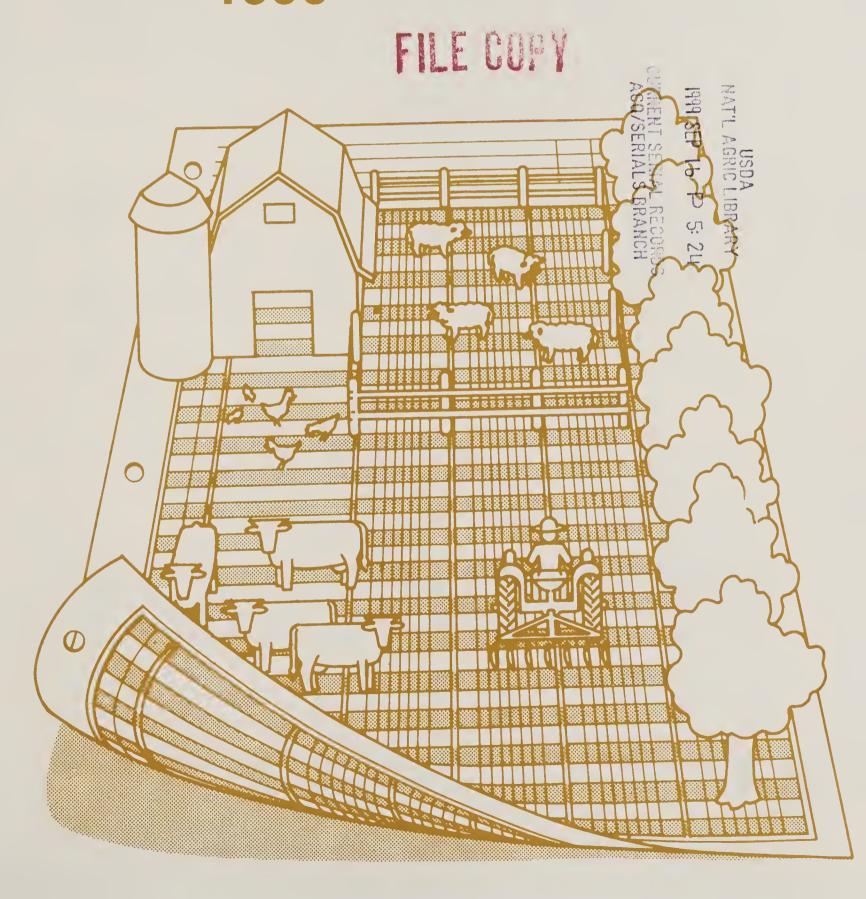
Economic Research Service

**ECIFS 10-5** 

Economic Indicators of the Farm Sector



# Costs of Production--Livestock and Dairy, 1990



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Economic Indicators of the Farm Sector: Costs of Production--Livestock and Dairy, 1990. Commodity Economics Division, Economic Research Service, U.S. Department of Agriculture. ECIFS 10-5.

#### **Abstract**

Changes in costs of production for dairy and other livestock enterprises ranged from -0.4 percent for farrow-to-finish operations to 17.7 percent for feeder pig finishing in 1990. Feed costs and interest costs declined slightly, but general farm overhead expenses increased in 1990. Net cash returns for milk and hogs improved in 1990. Returns for beef cattle and sheep continued to decline.

Keywords: Costs of production (COP), costs and returns, feed costs, enterprise budgets.

#### Preface

This is one of five reports in the annual Economic Indicators of the Farm Sector series; others are Costs of Production--Major Field Crops, National Financial Summary, State Financial Summary, and Production and Efficiency Statistics.

This report contains enterprise cost estimates for 1989 and 1990 for dairy and 1988, 1989, and 1990 for other livestock as well as time series data beginning in 1972. The 1990 estimates are preliminary and the 1989 estimates have been revised.

The methodology pertains only to livestock and dairy enterprises in estimating livestock and dairy costs of production. This report is prepared by staff of the Livestock, Dairy, and Poultry Branch, Commodity Economics Division, Economic Research Service.

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# Economic Indicators of the Farm Sector

# Costs of Production--Livestock and Dairy, 1990

#### 1990 Production Costs and Returns

The U.S. Congress, through the Agriculture and Consumer Protection Act of 1973, requires the Secretary of Agriculture to estimate annual costs of producing wheat, feed grains, cotton, and milk. The Economic Research Service (ERS) carries out this mandate and also determines costs for rice, peanuts, soybeans, flax, sunflowers, fed cattle, beef cow-calf, hogs, sheep, and sugar.

This report presents national and regional estimates of livestock production costs and returns for 1988, 1989, and 1990, and milk production costs and returns for 1989 and 1990. This report also furnishes cost-of-production results of the 1989 Farm Costs and Returns Survey (FCRS) for dairy for the first time.

The cost-of-production (COP) estimates are in the form of enterprise budgets with three sections: cash receipts (gross value of production), cash expenses, and economic costs. Estimates are weighted averages of enterprise costs across all operations within each region and across the Nation. The effects of Government programs are included implicitly through their effects on prices and total enterprise expenditures. For example, Federal emergency feed programs were made available to dairy and livestock producers in 1989 in response to the 1988 drought. However, expenditures associated with the emergency feed programs were not separately identified from total feed expenditures. Explicitly, Government programs appear in this report only in dairy assessments, wool, and unshorn lamb payments.

The estimates are not designed to represent any specific producer nor are they economically engineered to be "typical" of specific types of livestock operations. Further, they do not reflect "best management" practices suggested in most farm management extension planning budgets. Individual farms may have different production costs and returns due to the mix of inputs and yield unique to a given farm. The estimates do reflect the national and regional average costs and returns of milk and livestock production.

# Enterprise Highlights From 1988 to 1990

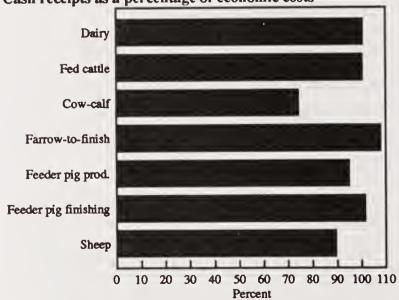
Prices for major production inputs other than feed and forages increased in 1990, with fuels and energy, feeder livestock, and tractors showing the largest increases. Price indexes for selected production items changed as follows:

<u>Input</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>
		Percent	
Farm origin:			
Feed	24.6	3.7	-5.9
Hay	31.1	.2	-2.6
Feeder livestock	7.3	1.0	9.8
Nonfarm origin:			
Wage rates	6.6	4.5	3.2
Buildings	.7	2.2	2.1
Autos and trucks	3.4	3.7	3.6
Tractors	4.0	6.6	4.7
Other machinery	6.5	5.6	3.8
Farm supplies	0	3.4	2.7
Fuels and energy	2.4	9.4	13.3
Farm chemicals	6.6	4.5	3.2

Source: NASS, Agricultural Prices.

Residual returns to livestock enterprises improved most dramatically for farrow-to-finish hog production. Farrow-to-finish and feeder pig finishing showed the highest positive returns, followed by dairy and fed cattle enterprises (fig. 1). Residual returns to cow/calf production improved but

Figure 1
Returns to livestock enterprises, 1990;
Cash receipts as a percentage of economic costs



remained negative at -\$138 per cow. The negative residual returns to sheep enterprises became even more negative in 1990 for the second time, and second successive year, since 1984.

Dairy Costs and Returns—This issue debuts 1989 and 1990 dairy cost and returns estimates based on the 1989 survey. U.S. costs continued to rise in 1990 with total cash expenses 10 cents higher per hundredweight (cwt) of milk, and economic costs 31 cents higher per cwt. Increased feeding of concentrates accounted for much of the increase.

Cash receipts increased 2 percent (27 cents per cwt) because of higher milk and dairy cattle prices. Both net cash returns and residual returns to management and risk increased. Cash receipts increased more than costs increased, improving residual returns to management and risk. The residual returns picture improved by \$30 in net cash returns and by \$8 for residual returns to management and risk.

Appalachia showed the greatest increase in cash receipts, 89 cents per cwt of milk, a rise of 8.5 percent, followed by the Southeast (82 cents) and Northeast (60 cents). Per-cwt cash receipts declined in the Southeast (7 cents) and Pacific region (26 cents) (fig. 2).

Feed costs rose in all regions except the Corn Belt and the Upper Midwest where much of the feed is homegrown. Total feed costs in the Southern Plains increased 5.4 percent and 41 cents per cwt of milk because of the regionally greater reliance on purchased feed. The Southern Plains saw the largest increase in concentrate costs, 53 cents per cwt of milk, because the region also relies on purchased concentrates.

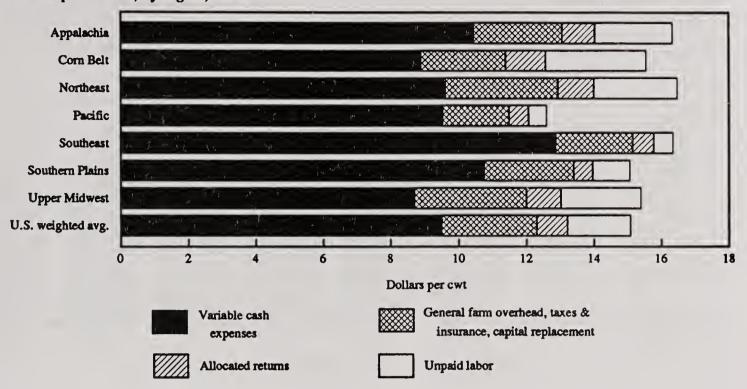
Lower 1990 hay and other forage prices helped offset higher concentrate prices in all regions except the Southeast. Expenses for hay and silages declined significantly in the Corn Belt and Upper Midwest, the only regions where total feed costs decreased.

Changes in total cash expenses plus capital replacement ranged from -1.1 percent (Corn Belt) to 2.4 percent (Northeast). Total cash expenses plus capital replacement in the Pacific increased 2 cents per cwt. The combination of a larger increase in cash receipts and smaller increase in total cash costs and capital replacement in Appalachia resulted in the largest increase in 1990 net cash returns (61 cents per cwt above 1989). The Southeast showed the second largest increase in net cash returns (58 cents per cwt). The remaining regions, except the Pacific (down 28 cents per cwt), registered increases in net cash returns of 7-21 cents per cwt.

Total economic costs of producing milk increased in all regions during 1989-90. The Pacific had the lowest economic costs due to lower general farm overhead and

Figure 2

Total costs of milk production, by region, 1990



lower costs for unpaid labor. Higher fixed and capital costs in the Upper Midwest, the Northeast, the Corn Belt, and Appalachia reflected spending on forage production machinery, used in homegrown forage production, versus regions that purchased much larger portions of feed requirements. Substantial animal-investment housing because of harsher weather added to the fixed costs of regions outside the Pacific, the Southeast, and the Southern Plains.

Costs for unpaid labor were high in the Corn Belt, the Northeast, the Upper Midwest, and the Appalachian regions, which have relatively small herds and rely less on hired labor. Costs for use of family labor by far were lowest in the Pacific, the Southern Plains, and the Southeast regions where herds are larger and require more hired labor.

Costs for unpaid (operator and family) labor were remarkably higher in the 1989 FCRS dairy survey than in the 1985 survey (fig. 3), but were in closer proximity to the 1980 dairy cost of production survey. Expenses for hired labor were also notably higher in five regions in the 1989 dairy survey than in the 1985 survey. Cash wages paid to dairy operators in the 1985 dairy survey could not be separated from wages paid to other workers. As a result, expenses for hired labor in the 1985 dairy survey partially included a payment to dairy operators. The 1985 dairy survey, we now believe, overestimated expenses for hired labor and underestimated costs for unpaid labor. After careful evaluation and comparisons of expenses for paid and unpaid labor of the 1979, 1985, and 1989 dairy surveys, ERS decided that data should be revised for 1985-88 based

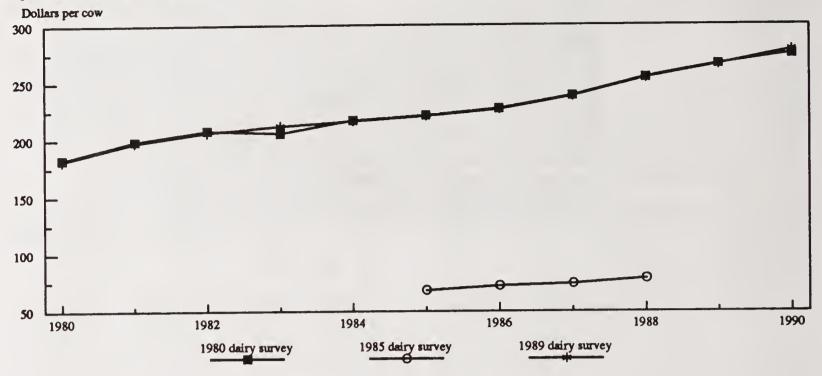
on the 1989 survey and changes in annual average wage rates.

Fed Cattle--Fed cattle production costs rose slightly in both 1989 and 1990 (fig. 4). Variable cash expenses increased \$2.65 per cwt to \$74.09 in 1990. Net cash returns to fed cattle operators, still negative, were lower in 1990 than in either 1988 or 1989. Higher prices for slaughter steers and heifers pushed cash receipts to successive record highs of \$73.76 and \$78.77 per cwt in 1989 and 1990, not enough in either year to cover total cash expenses. Feeder cattle and feed expenses were 91 percent of total cash receipts in 1989 and 89 percent in 1990. Overall, total cash expenses and capital replacement exceeded total cash receipts by \$4.48 and \$2.10 per cwt in 1989 and 1990.

Lower forage expenses, combined with lower costs for grain, protein supplements, and hay, yielded lower feed expenses per cwt of slaughter animal in 1990 than 1989 for farmer feedlots. Feed expenses continued to be higher for farmer feedlots fattening calves instead of yearlings than for commercial feedlots which fatten yearlings. As a result of fattening calves versus yearlings, farmer feedlots used more feed and kept feeder cattle longer to reach slaughter weights. Net cash returns to farmer feedlots improved by more than \$3 in 1990.

Commercial feedlots, where feeder cattle constitute a larger proportion of the weight sold, buy older, larger cattle. But shorter feeding periods allowed them to pay less for feed and other inputs. The impact of the drought and lower stocks of feed grains did not carry into 1990, so feed costs

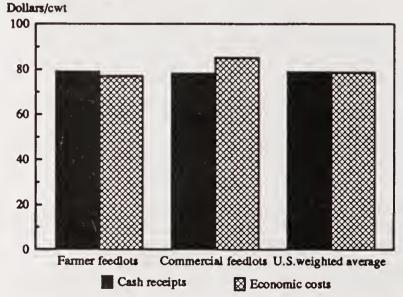
Figure 3 Unpaid labor expenses per cow



were lower. Residual returns to risk and management increased in 1990, but cash receipts failed to cover cash expenses and capital replacement by 16 cents per cwt.

Cow-Calf--Net cash returns to cow-calf operators, positive for only the fifth time in 19 years, improved again in 1990 after improving slightly in 1989 in spite of higher fuel and energy expenses. Higher prices for yearlings and feeder calves increased cash receipts to a record 19-year high (fig. 5).

Figure 4
Fed cattle production costs and returns,
by type of producers, 1990



On average, feed costs per cow, of which 75 percent was forage cost, declined. Greater dependence on pasture kept feed costs low for large operations. Medium and large operations (100 head and over) had lower fixed expenses and lower capital replacement costs per cow than smaller operations (fewer than 100 head). Net cash returns to cowcalf production increased as the size of operation increased.

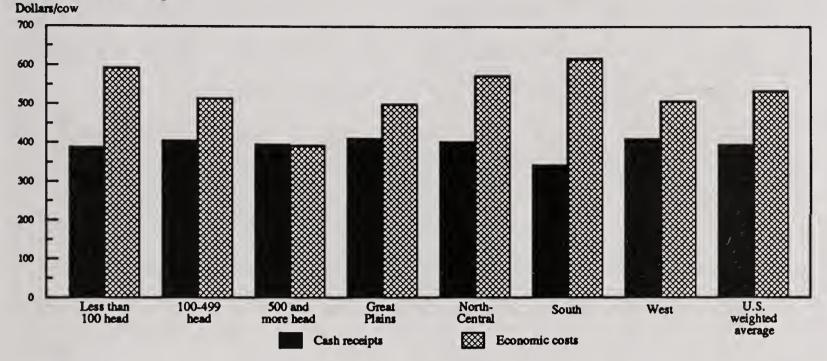
Smaller operations' cash receipts could cover only cash expenses, while, for larger operations, cash receipts covered both cash expenses and capital replacement (fig. 5).

Production costs varied from region to region, but the Great Plains and the West, with 58 percent of the 1990 beef-cow herd, maintained a cost advantage over other regions. Relative returns among regions were influenced by such factors as size, fixed and capital replacement expenses, and feed-pasture tradeoffs.

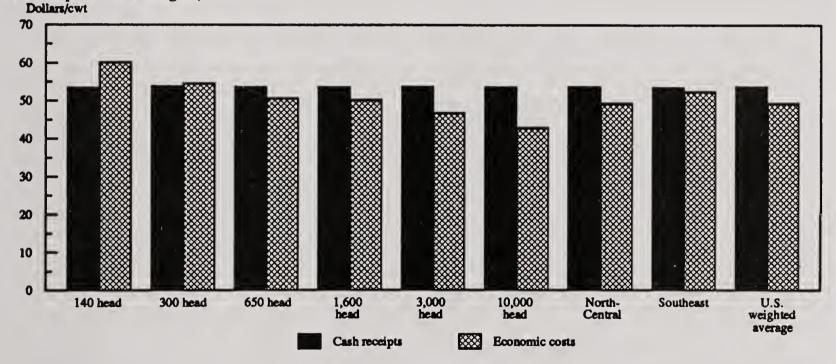
Farrow-to-Finish Hogs--Cash receipts increased sharply due to the increase in slaughter hog prices. Total cash expenses and total economic costs per cwt dropped slightly, primarily because reduced feed expenses more than offset increases in other input costs. The Southeast continued to have the highest feed costs. Operations with fewer than 300 head had negative residual returns to management and risk, while those with at least 650 animals had positive residual returns to management and risk (fig. 6).

Feeder Pig Production--Cash receipts declined \$3.23 per cwt in 1989, then jumped 51 percent in 1990 due to changes in feeder pig prices so that all operations were able to cover total cash expenses. Total cash expenses fell 2 percent per

Figure 5
Cow/calf production costs and returns, by size of operation and region, 1990



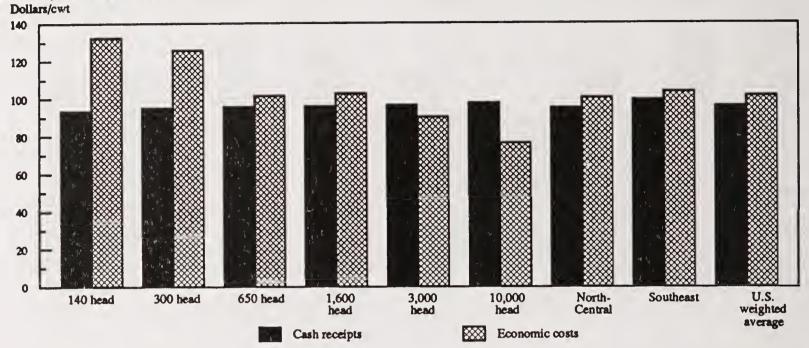
Farrow-to-finish costs and returns, by size of operation and region, 1990



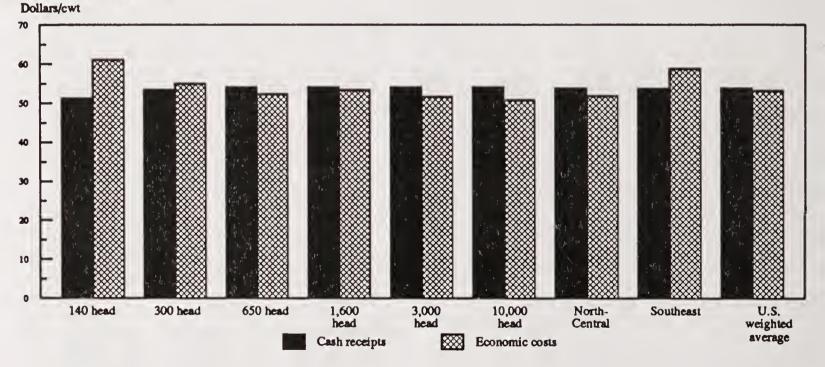
cwt because declines in feed expenses, especially protein supplements, were large enough to offset higher prices for other inputs. Net cash returns per cwt were positive in 1990, following the drop to a record 19-year low in 1989. Cash receipts less total cash costs were positive for operations with 650 head or more (fig. 7), and residual returns to management and risk were positive for operations with 3,000 or more head.

Feeder Pig Finishing—Cash receipts increased by almost 24 percent. Total costs were also higher in 1990 because higher feeder pig prices more than offset lower feed costs. Net cash returns were improved but remained negative. Operations with 650 head and more and operations in the North-Central region showed positive residual returns to management and risk (fig. 8).

Feeder pig production costs and returns, by size of operation and region, 1990



Feeder pig finishing costs and returns, by size of operation and region, 1990



Sheep-Because of lower lamb and wool prices, cash receipts for sheep declined in 1990 even though wool incentive payments and unshorn lamb payments increased. Although the lower cash receipts covered total cash expenses and capital replacement, higher variable costs added to higher fixed expenses resulted in negative residual returns to management and risk for the second time during 1972-90.

Net cash receipts for sheep producers declined from a peak of \$25.12 per ewe in 1987 to -\$9.25. Residual returns to risk and management declined for the second year in a row to -\$7.53 per ewe.

#### **Data Sources**

ERS relies on periodic producer surveys to obtain technical data from which the enterprise budgets for specific commodities are constructed.

#### **Primary Data**

ERS relies on periodic producer surveys to obtain technical and financial data from which enterprise budgets for specific commodities are constructed. The Farm Costs and Returns Survey (FCRS), begun in 1984, and conducted jointly by ERS and the National Agricultural Statistics Service (NASS), consists of personal interviews of farm and ranch operators who furnish information on income, expenses, and production practices. Items covered include herd size, expenses for selected livestock inputs, types and quantities of feed, housing, equipment for handling feed and manure, and storage structures for feed and manure. The expense of data collection prohibits every type of livestock enterprise from being surveyed every year. Each enterprise is generally surveyed on an approximately 4-year rotating basis.

Prior to 1984, the primary survey for costs of production was the Costs of Production Survey (COPS), also conducted by USDA. COPS samples were drawn from nonrandom lists of producers who had responded to other acreage and production surveys. The COPS sampling was probability-based, where the probability depended on size of operation.

The FCRS is also probability-based, but is a multiframe stratified survey composed of list and area frames. The list frame is made up of farms known to have previously produced a commodity, stratified by size of enterprise. In the year that a particular livestock enterprise is surveyed for production practices, the entire COP sample for that enterprise is in a list frame from which the sample is randomly drawn. Each observation represents a number of similar farms, the particular number being the survey expansion factor, which is the inverse of the probability of the observation being selected in its sample stratum. The FCRS is conducted during February and March, and the data provided pertains to production in the previous year.

Between survey years, the specific enterprise budgets are updated using secondary price and quantity data, mostly published by NASS. The dairy budgets from 1972-84 are based on technical data from the 1979 dairy COPS, while the dairy 1985-88 budgets are based on technical data from the 1985 FCRS, and revised 1989 and preliminary 1990 budgets are based on the 1989 FCRS. The cattle, hogs, and sheep enterprise budgets for 1973-80 are based on 1976 COPS technical data, and the budgets for 1981-90 are based on the 1980 COPS. As new surveys are conducted, new FCRS data for costs of production will be incorporated into future estimates. The different sampling schemes and

methodology between the COPS and the FCRS affected the data underlying production budgets, thus affecting cost estimates.

#### **Secondary Data**

Price and quantity data available from other surveys conducted by AMS, ERS, and NASS supplement the FCRS-based technical data. These additional livestock data on price, milk price, milk yield, milk cow and livestock numbers, land values, wage rates, price and quantity data for dairy and livestock feeds, and prices paid for other agricultural inputs are used to generate survey base-year budgets and to update the costs-and-returns budgets between survey years.

For all livestock enterprises except dairy in 1989 and 1990, engineering relationships, developed by the American Society of Agricultural Engineers (ASAE), are programmed in a computerized budget generator that estimates machinery costs on a per-hour basis. The budget generator also provides estimates of expenses for fuel, lubrication, electricity, repairs, taxes, insurance, and machinery replacement costs according to the number, type, and hours of use summarized from survey data.

#### **Enterprise Budgets**

ERS presents COP data in the form of an enterprise budget which summarizes all costs and returns associated with the production of livestock or milk. The budgets identify costs associated with the specific enterprise and exclude costs and returns generated by all other enterprises on the farm. For example, many operations grow feed for their livestock. The budgets reflect costs associated with producing the feed that is actually fed to the specific livestock enterprise, but excludes both the costs and returns from feed grown on the operation that is fed to other enterprises or is sold.

Each enterprise budget contains cost and returns measures separated into three major categories: cash receipts or gross value of production, cash expenses, and economic costs. The budgets are estimated on a per-head basis (per cow, per ewe) and/or on a per-cwt basis (per cwt of milk, hog, or fed cattle). Regional and national budgets are weighted averages of data within each State surveyed.

#### **Cash Receipts (Gross Value of Production)**

Including the cash receipts helps put costs in perspective. Given levels of costs could be associated with a high or low level of net returns, depending on the value of the livestock product(s). Reporting only costs or only the cash receipts gives just half the picture. Cash receipts for a calendar year are included whether or not cash payment was actually received in the same calendar year the livestock product was produced.

The term "gross value of production" was used in 1987 and 1988 for consistency with the crop cost of production budget format (where "cash receipts" is inaccurate). Since crops and livestock COP estimates are now published separately, the livestock estimates have returned to "cash receipts" terminology. The value of both the primary and the secondary or joint livestock products, that is, cull and surplus stock and/or wool, are included. Although these secondary products are easily identified, their production costs are not easily distinguished. For example, it can be difficult to determine whether certain inputs, such as feed or housing, are for the production of the primary or secondary product. So, a budget for the complete livestock enterprise is estimated rather than trying to separate the production costs for each product.

Except for wool incentive and unshorn lamb payments, direct Government payments are excluded from the cash receipts. However, the effects of Government programs on milk and meat costs and returns are implicitly reflected in market prices. The Government supports the milk price through direct market intervention by Commodity Credit Corporation (CCC) purchases of manufactured dairy products (butter, cheese, nonfat dry milk). The Government also affects prices for milk and meat by limiting the quantity of milk (mostly in manufactured product forms) and meat imports. The Government also assists agricultural producers in emergencies caused by natural disasters. For example, one provision of the Emergency Feed Assistance Program (EFAP) provides direct payments for producers facing abnormally high feed expenses. However, because of the lack of data linking these payments to specific enterprises, they are not included in the cash receipts.

Cash receipts are based on product prices and yields. Gains and losses accruing from changes in asset values are not included except for residual returns to nonland capital and land. Livestock prices are the prices received in the month that the livestock is typically sold (or purchased) for the particular type (cows, steers and heifers, calves, barrows and gilts, sows, lambs, sheep, or wool) reported by NASS in Agricultural Prices. The prices of the byproducts of milk production, cull dairy cows, calves, and replacements (cattle), reflect the marketing year average price. The milk price is the average annual price received for milk sold to plants and dealers by producers as reported by NASS in Agricultural Prices. Quantities of livestock sold are summarized from the FCRS for the survey year (month sold/purchased for beef, hog, and sheep enterprises) and remain constant over nonsurvey years. FCRS data also furnish milk sold per cow. The quantity of milk sold is updated between survey years by indexing the changes in average milk produced per cow reported by NASS in Milk Production.

#### Cash Accounts

The cash accounting portion of the budgets reflect the cash transactions relevant to the enterprise. The two categories of cash expenses per unit of livestock product, variable and fixed, reflect costs that must be covered if the operation is to continue to operate in the short run, that is the break-even point. Income taxes and loan principal payments are not included in the enterprise budgets. Although producers have some discretion as to when to actually make capital purchases, capital replacement reflects actual "costs" where producers must set aside funds to replace equipment, machinery, livestock, and buildings.

#### Variabie Cash Expenses

Variable cash expenses are those that vary with the quantity of production of a given product. For most livestock enterprises, the largest single component of variable expenses is feed. The FCRS reports the amounts and types of feed fed to both breeding and replacement stock and how much was grown by the producer for the livestock enterprise. The feeds are itemized and listed at the head of the variable cash expenses under the subheading "Feed." Feed costs reflect the full cost of purchased forage and the variable costs of forage production. The other nonvariable costs (such as taxes and insurance, interest, capital replacement charges, and land) for the crop machinery and cropland associated with homegrown livestock forage production are included in specific line items. The homegrown forage costs are estimated annually from separate unpublished forage production budgets. The purchased forage prices reported in the FCRS are updated between survey years by indexing according to changes in hay prices reported by NASS in Agricultural Prices.

Most livestock feed costs are based on the market price for grains, concentrates, and feed supplements. These market prices are adjusted between survey years by indexing according to changes in the prices paid index for the respective commodity as reported by NASS in Agricultural Prices. The quantities of grains and supplements are obtained from the FCRS and are not adjusted between survey years.

Dairy differs slightly from other livestock budgets. Dairy concentrate expenses include all purchased and homegrown grains, nutritional supplements, and premixed feed. Purchased concentrates are valued at the market prices, reported by producers in the FCRS. The price and quantity of concentrates fed is updated between surveys by indexing according to the change in the quantity fed per cwt of milk and the value of grains and concentrates fed to milk cows, respectively, as reported by NASS in *Milk Production*. The level of feeding also is adjusted by year-to-year changes in output per cow between surveys as reported by NASS.

Illustration 1--Differences in procedures between surveys for milk production costs and returns estimates

> 1985 dairy survey (1985-88)

1989 dairy survey (1989-90)

#### Cash expenses

Feed costs:

Purchased grains, forages, & byproducts--Quantity fed times market prices or average cost

Homegrown grains, forages, & byproducts--Quantity of grains fed times market prices Quantity of forages fed times variable cost of forage production Byproducts fed times market prices

Fuel, lube, and electricity: Budget generator

Machinery and building repairs: Budget generator

Paid labor:

Includes expenses for contract labor and cash wages, cash and noncash expenses paid other operator family members, and partial payment to operator

Taxes and insurance: Budget generator

Capital replacement: Budget generator

Feed costs:

Purchased grains, forages, & byproducts--Dairy share of total farm feed expenditures during 1989

Homegrown grains, forages, & byproducts--Quantity of grains fed times market prices Quantity of forages fed times variable cost of forage production Byproducts fed times market prices

Fuel, lube, and electricity: Dairy share of total farm fuel, lube, and electricity expenditures during 1989

Machinery and building repairs: Dairy share of total machinery and building repairs expenditures during 1989

Paid labor:

Includes expenses for contract labor and cash wages, cash and noncash expenses paid other operator family members

Taxes and insurance:

Dairy share of total farm real estate and property taxes and crop insurance expenses during 1989

Capital replacement:

Capital invested in dairy breeding herd, plus dairy share of farm actual expenses

for building and machinery

#### Economic (full ownership) costs

Return to nonland capital: Budget generator

Return to nonland capital:

Value of dairy livestock plus dairy capital replacement times the average age of each asset type multiplied by the calculated 10-year rate of return of agricultural assets

Unpaid labor:

Imputed expenses for unpaid operator and other unpaid workers' time spent on dairy enterprise valued at the annual average hourly wage rates for all hired farmworkers

Unpaid labor:

Imputed expenses for operator and other unpaid workers' time spent on dairy enterprise valued at the annual average hourly wage rates for all hired farmworkers

Some producers who are surveyed may have been eligible for the Federal Government's drought relief programs. EFAP provided for low-cost grains. However, due to the uneven geographic distribution of program benefits, data were inadequate to reflect the impact of the EFAP assistance on the various enterprise budgets.

The expenses for several other inputs are obtained from FCRS data and are updated between survey years by composite changes in more than one set of NASS prices. Artificial insemination expenses and Dairy Herd Improvement Association (DHIA) fees are updated by an index based on 20 percent of the change in the prices paid index for fuels and energy, 30 percent of the change in the prices paid index for autos and trucks, and 50 percent of the change in the wage rate index. A composite index made up of 30 percent of the change in the prices paid index for agricultural chemicals and 70 percent of the change in the wage rate index is used to update veterinary and medicine expenses.

Livestock hauling expenses are updated using an index based on 30 percent of the change in the prices paid index for fuels and energy and 70 percent of the change in the prices paid index for farm and motor supplies. Changes in the costs of dairy supplies are based on changes in the prices paid index for items used for production. The hired labor cost (expenses) is estimated by multiplying the number of hours obtained from the FCRS times the reported farm labor wage rate plus the employer's contribution to Social Security. Hired labor expenses for the dairy enterprise are obtained as total expenses per cow and are indexed between survey years by the change in the farm labor wage rate including Social Security. Marketing expenses include fees paid to brokers, cooperatives, handlers, or dealers to facilitate the exchange of livestock products.

Milk marketing charges per cwt are obtained from the FCRS and are updated by changes in the marketing charges reported by administrators of Federal Milk Marketing Orders. Milk hauling charges are estimated in the same way. Livestock marketing charges are obtained from the FCRS and are updated from the prices paid index for all production items of nonfarm origin. The expense for bedding materials, such as straw, is obtained from the FCRS, and is updated according to the price of other hay as reported by NASS in Agricultural Prices.

Credit for the fertilizer value in manure from fed cattle operations and hog operations is included as an expense because it reduces the cost of fertilizer used in producing feed for these enterprises. The value is estimated by taking the amount of nitrogen, phosphorus, and potassium supplied by the manure from the enterprise and multiplying it by the price of the respective ingredients for the survey year. Between survey years, the value of livestock manure is indexed by the prices paid for fertilizer. The custom feed

mixing expenses for cow-calf and feeder pig enterprises are taken from the FCRS and are updated by labor and machinery cost indexes.

Shearing and tagging expenses for sheep enterprises are taken from the FCRS and are updated by changes in the farm wage rate. Ram death loss accounts for the number of rams that need to be replaced to maintain the flock. The quantity, obtained from the FCRS, is valued at the market price for cull ewes as reported by NASS in Agricultural Prices.

The procedure for calculating the cost of owning and operating machinery and equipment is complex. Every operation has a different age and size distribution and different numbers and types of machinery and equipment items. Most operations have more than one enterprise. Machinery and equipment costs for an operation are allocated among the specific enterprises on the farm. The numbers, sizes, hours of use, type of fuel used, age, total hours of annual use per enterprise, and types of machinery and equipment used for specific enterprises come from FCRS data. ERS specifies the length of life and obtains estimates of list and purchase prices used to calculate machinery- and equipment-related costs. Prices are updated annually by prices paid indexes for certain farm machinery reported by NASS in Agricultural Prices, except for dairy, which is explained later.

The fuel, lube, and electricity expenses for the equipment and machinery specified in the FCRS are calculated by the economic engineering equations developed by the ASAE, except for dairy. Prices for fuels in each State, adjusted for refundable Federal and State excise taxes where necessary, are reported by NASS in Agricultural Prices. Machinery and building repairs for equipment, machinery, and buildings specified in the FCRS for each enterprise, except for dairy, are also estimated by economic engineering equations developed by the ASAE.

Expenses for fuel, lube, and electricity, machinery and building repairs, taxes and insurance, and capital replacement for dairy were allocated by a different method. The allocation procedure was based on previously published FEDS estimates of regional 1989 costs for each commodity, crop and livestock, produced in each region. To determine the dairy share of costs for each observation, the regional FEDS-based per-acre or per-head cost item (for example, the per-acre fuel cost for com in the Southeast) was multiplied by the acres or number of head for each enterprise reported for an operation. Costs for all enterprises were added together until an estimate of the total expenditures for the farm, like total fuel costs, was derived. Then the FEDSbased estimate of the single enterprise total cost for a selected line item (for example, repairs for the dairy livestock enterprise) was divided by the total of all FEDS-

based cost estimates for a line item for all enterprises on the operation.

This procedure yields the FEDS-based proportion of total line item expenditures attributable to the specific livestock enterprise. Finally, this FEDS-based proportion was multiplied by the actual observed FCRS total capital expenditures for an operation, supplying the enterprise share of capital expenditures for a specific operation. Summing the costs for all operations in a region and dividing the total by the appropriate number of animals for the region yielded the budget line item amount.

Since the 1989 FEDS estimates used in calculating enterprise shares are based on the same or similar machinery complements for all commodities, the relationships between commodities are logically consistent and reflect the actual relationship of expenditures between commodities. This FEDS-based allocation procedure furnishes a relatively precise way of allocating total farm expenditures for capital or other cost items, like fuel expenditures or repairs, to a specific enterprise.

Dairy share of repairs, taxes, and insurance--The farm share of repairs, taxes, and insurance were all allocated according to the enterprise share of repair costs based on the assumption that repairs, taxes, and insurance are proportional to capital invested in the farm (the same assumption FEDS made). Total repair costs for the operation were allocated to the livestock enterprise according to the enterprise share of FEDS-based repairs:

Repair costs for the dairy enterprise = (the dairy share of FEDS-based repairs) x (the total FCRS repair costs for the operation),

where the dairy share of FEDS-based repair costs = ((the per-cow FEDS-based repair costs) x (the number of milk cows)) / ((the sum of (each crop's per-acre FEDS-based repair costs) x (each crop's acreage)) + (the sum of each livestock unit's per-head FEDS-based repair costs) x (the number of head)).

For example, suppose a hypothetical Corn Belt farm grew 50 acres of corn and had 100 dairy cows in 1989. The repairs per milk cow would be:

Dairy share of 1989 farm repair costs (per cow) = ((\$57.18 x 100 cows) / (\$7.13 x 50 acres + \$57.18 x 100 cows)) x \$6,450 / 100 cows = \$60.71,

where,

FEDS-based corn repair costs per acre in 1989 = \$7.13, FEDS-based dairy repair costs per cow in 1989 = \$57.18, and

Fifty acres of corn were planted in 1989, and there were 100 milk cows.

Total repair costs for the farm in 1989 were \$6,450.

Dairy share of fuel, lube, and electricity--Total fuel, lube, and electricity (for irrigation) costs for the operation were also allocated to the livestock enterprise according to the enterprise share of 1989 FEDS-based fuel, lube, and electricity costs for the operation:

Fuel, lube, and irrigation electricity costs for the dairy enterprise = (dairy share of per-cow FEDS-based fuel, lube, and irrigation electricity costs) x (farm's total fuel, lube, and irrigation electricity costs).

#### Fixed Cash Expenses

General farm overhead expenses, taxes and insurance, and cash interest paid are relatively fixed in the short run, regardless of the level of production. Overhead expenses represent actual cash expenses for electricity for general farm use, fees and dues, fence materials and supplies, farm telephones, farm water (not irrigation), water drainage, liability insurance, and general business expenses. Actual interest expenses paid reflect both real estate and nonland loans. These expense items come from the FCRS.

Personal property taxes are based on the current value of new machinery, equipment, and buildings lagged to a base year. Land taxes are based on the value of land and the real estate taxes for the particular production area. Lags are based on the average age of equipment, machinery, and buildings from the FCRS data. Insurance expense, however, is based on the current value of these assets. Only taxes on the machinery, equipment, and buildings actually used in the production of the particular enterprise are included. Again, dairy taxes and insurance were determined as a FEDS-based (see dairy repairs) share of total farm expenditures.

The procedures to update general farm overhead and interest expenses for all livestock budgets for 1988, 1989, and 1990 and for 1990 dairy costs and returns data are different from procedures used before. Percentage changes from the base year indexes of prices paid for all production items and interest permit updating the overhead and interest expenses.

#### Capital Replacement

An operator may defer machinery and equipment purchases depending on the economic conditions facing the operation in any year. However, timely replacement of capital stock is essential for maintaining production over the long run. ERS estimates the costs of machinery, equipment, and breeding livestock at current prices. Thus, capital replacement represents a charge sufficient to maintain production capacity through time. The value of purchased breeding animals depreciates to salvage value. The number of years over which the animal's value depreciates varies by region and species. Livestock used for replacement but raised on the farm do not depreciate because the cost of raising these

replacements is included. Depreciating such replacement animals would result in a double-counting. The additional capital expenditures for homegrown forages fed on the operation were added to the dairy share. Capital replacement costs for dairy replacement livestock came from dividing the expenditures for purchased dairy breeding livestock by the appropriate number of animals reported for each operation.

The new capital replacement costs for dairy are not much different from 1985-based estimates for 1989. However, interest on nonland capital costs declined for two reasons. First, 1988 cost estimates are based on 1985 data, while 1989 and 1990 estimates are based on more recent 1989 data. Second, the method of calculating asset values is based on actual expenditures and actual average lives as reported in the FCRS, rather than the 4-year lagged average prices for selected assets under FEDS-based estimates.

#### Net Cash Returns

Net cash returns is a new term used for identifying the residual after subtracting total cash expenses and capital replacement expenses from total cash receipts. It is the cash remaining after production expenses that is available for debt service, family living expenses, income taxes, and to reward the operator's risk, labor, capital, and management. It is not profit, since neither income taxes nor a return to owned capital is taken into account.

#### **Economic (Full Ownership) Costs**

Economic costs reflect an assessment of the full resource costs of a livestock enterprise, regardless of who owns the resources. All assets are assumed to be owned. The cash expense section includes actual cash interest paid, which is heavily dependent on the level of debt, the type of debt, and repayments to lending institutions. Therefore, instead of including the actual cash interest expense, the opportunity costs of operating capital, nonland capital, and landownership are imputed, as is the value of unpaid labor. These costs are not market transactions. The economic cost per unit indicates the average break-even price needed to motivate producers to fully cover all factors of production and continue producing in the long run.

The return allocated to operating capital is based on the assumption that the rational producer expects money invested in production inputs to earn at least as much as if the money were earning interest at the 6-month U.S. Treasury bill rate. Treasury bill rates for 1988, 1989, and 1990 were 6.92, 8.04, and 7.47 percent.

The annual expected return the average producer might receive from capital invested in the nonland assets used in livestock production is estimated by multiplying a 10-year moving average of the ratio of residual income to assets for the farming sector by the value of the machinery, equipment,

and breeding livestock. The value of machinery, buildings, and equipment are lagged from current prices according to their average age to reflect their initial prices. The average age for equipment and permanent structures is obtained from the FCRS.

Livestock is valued at the current year's prices. An operator could expect the capital invested in livestock inputs to receive an annual return equal to their opportunity costs, exclusive of asset valuation changes because of inflation or deflation. The rate of return must be calculated from earnings from the current production process. Earnings from price appreciation (capital gains) or price depreciation are not included here or in the cash receipts section. The expected rate of return is calculated by taking the average of the previous 10-year total return to production assets in the agricultural sector, subtracting the value of the operator's labor used each year, and dividing by the respective cash receipts assets. All three series appear in Economic Indicators of the Farm Sector: National Financial Summary. The calculated rates for 1988 through 1990 are 2.54, 2.68, and 2.85 percent.

Asset values for dairy operations were calculated by multiplying operator-reported capital replacement by the average age of each asset type, that is buildings and machinery. Dairy livestock was valued at State average prices for dairy replacements. Both the average expenditures for new capital and the average age of each asset type were estimated directly from the 1989 dairy FCRS data. This assumes that an imaginary operator entering the dairy industry in 1989 would pay the calculated asset values per cow.

The allocated returns to land is the value of land used for the livestock enterprise (including land for livestock feed production) multiplied by the calculated 10-year rate of return to agricultural assets.

The annual hours of unpaid labor (operator, family, and other) were reported in the FCRS and are valued at the annual average hourly wage rate for "all hired farmworkers" plus the employer's share of social security taxes. Any additional return reflecting the operator's labor skills or entrepreneurial capabilities appears in the residual return to management and risk.

Total economic costs consist of variable cash expenses, general farm overhead, taxes and insurance, capital replacement, and allocated returns to operating capital, nonland capital, land, and unpaid labor. The residual (total economic costs subtracted from cash receipts) is the return to the producer's management and risk. The returns to management and risk should be evaluated in light of the given allocation of returns to owned inputs and are directly comparable across livestock enterprises since the same procedures are used. In the long run, the return to risk is

expected to average near zero, although in any year, it could be positive or negative depending on weather and supply and demand factors. Returns to management are not typically determined by a set rate, so the actual level is quite obscure, but it should be greater than zero. Therefore, the average residual returns to both management and risk on the average are expected to be positive.

### **Appendix-Time Series Data**

This report presents a set of costs and returns estimates for U.S. livestock and dairy production for 1972-90. Tables 56-62 show the costs of producing livestock for 1972-87 and for dairy for 1972-88. The report's one set of time series data reflects changes in the cost structure of the livestock and dairy industry over time. Total economic costs for cattle, hogs, sheep, and milk production ranged from 80 to 156 percent higher in 1990 than in 1972 (figs. 9-15). Milk production is the only enterprise for which cash receipts were more than 100 percent of total economic costs for 18 times between 1972-90. Cow-calf cash receipts averaged the lowest percentage of economic costs, 61 percent, of all livestock enterprises. Sheep production showed the largest variation in this measure, ranging from 74 percent in 1974 to 124 percent in 1987.

Milk--Cash receipts as a percentage of total economic costs for the 19-year period ranged from 94 to 122 percent and averaged 113 percent. Feed costs averaged 53 percent of total cash costs and 41 percent of total economic costs during 1972-90.

Fed cattle--Net cash returns were the highest in 1978, \$3.65 per cwt, and the lowest in 1981, -\$9.04. Net cash returns averaged -\$4.03.

Cow-calf--Net cash returns averaged -\$28.04 per cow during 1972-90. Cash receipts averaged 61 percent of total

economic costs, peaking at 86 percent in 1979. On average, the residual return to management and risk of cow-calf operations was -\$158.42. In contrast to dairy enterprises, cash receipts for cow-calf producers were less than 100 percent of total economic costs for all of 1972-90.

Farrow-to-finish hogs--Residual returns to management and risk of farrow-to-finish operations averaged -92 cents per cwt, the highest of all hog enterprises. Cash receipts averaged 98 percent of total economic costs, peaking in 1987 at 119 percent, and in both cases, the highest of the three types of hog enterprises.

Feeder pig production--Net cash returns were positive 10 times between 1972 and 1990, but cash receipts as a percentage of total economic costs were at their lowest level in feeder pig production enterprises and reached record lows in 1980 and 1989 when they averaged -\$1.59 per cwt. Among all hog enterprises during the 1980's, cash receipts as a percentage of total economic costs were record or near-record lows in 1980 and 1989. Residual returns to management and risk averaged -\$14.31 per cwt.

Feeder pig finishing--Net cash returns were negative for 18 of the years during 1972-90, being positive only in 1987. Feeder pig finishing fared slightly worse than feeder pig production. Net cash returns averaged \$3.49 per cwt below feeder pig production returns. However, the residual returns to management and risk were \$10.24 per cwt, more favorable for feeder pig finishing operations than feeder pig production operations.

Sheep--Net cash returns to sheep production peaked in 1987 and were the lowest in 1974, averaging \$9.96 per ewe over the 19-year period. Cash receipts also peaked in 1987 but were the lowest in 1972. Total cash receipts averaged 93 percent of total economic costs, and the highest ratio, 124 percent, was the highest of all enterprises.

Pigure 9
Costs and returns of milk production, 1972-90

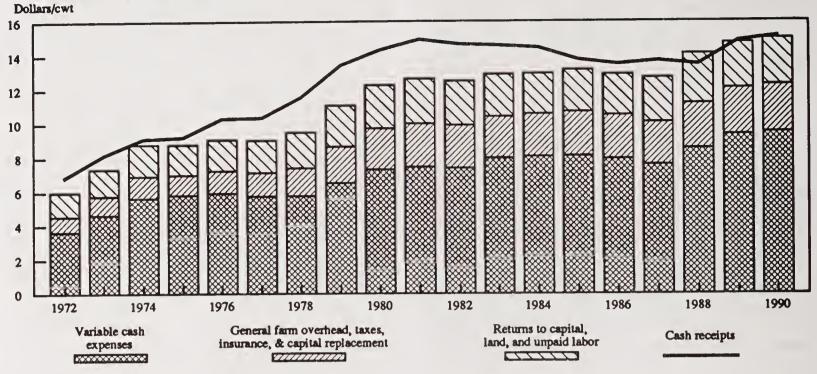


Figure 10
Costs and returns of fed cattle production, 1972-90
Dollars/cwt

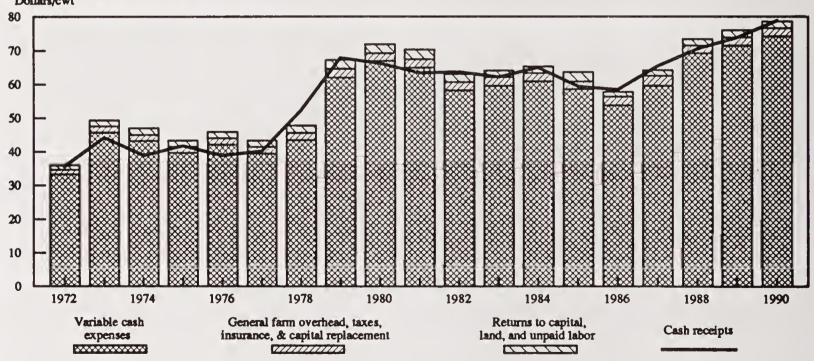


Figure 11 Costs and returns of cow-calf production, 1972-90

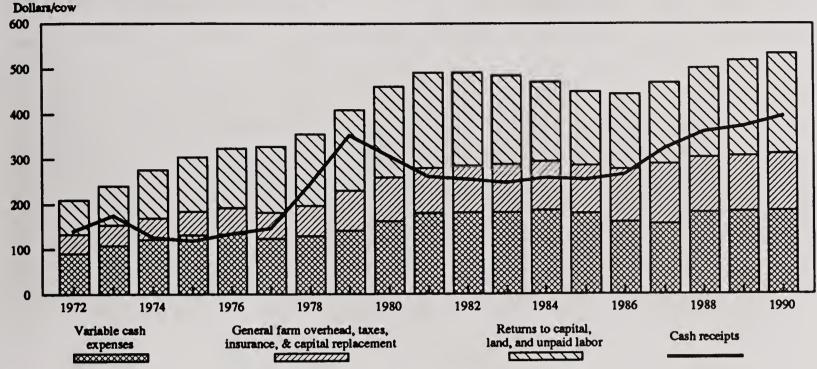


Figure 12
Costs and returns of farrow-to-finish hog production, 1972-90

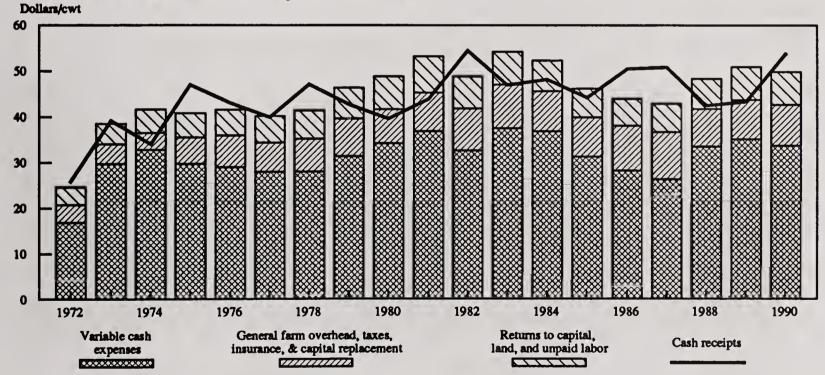


Figure 13 Costs and returns of feeder pig production, 1972-90

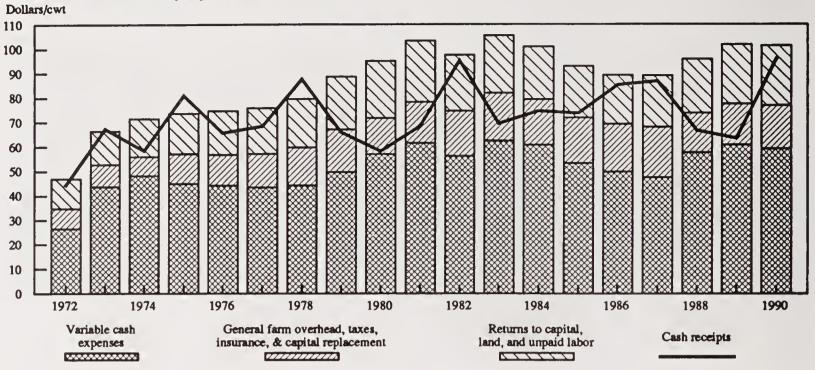


Figure 14
Costs and returns of feeder pig finishing, 1972-90

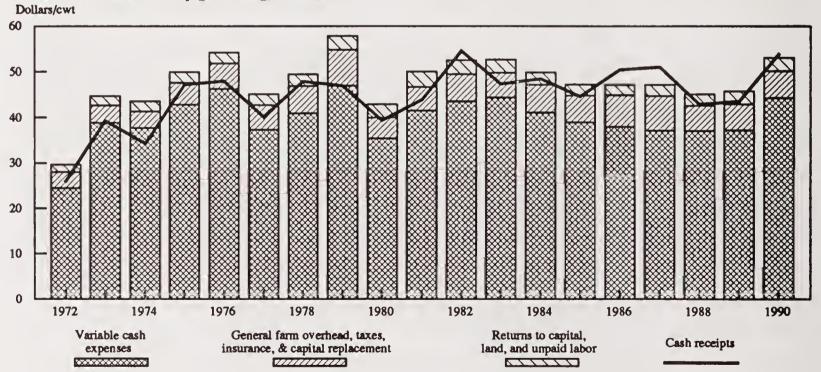
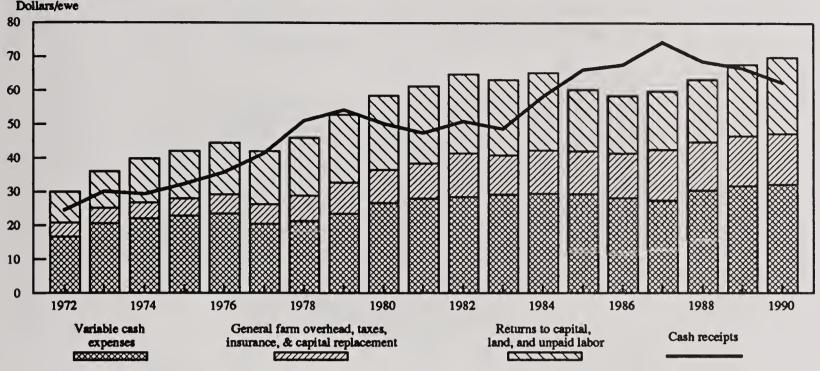
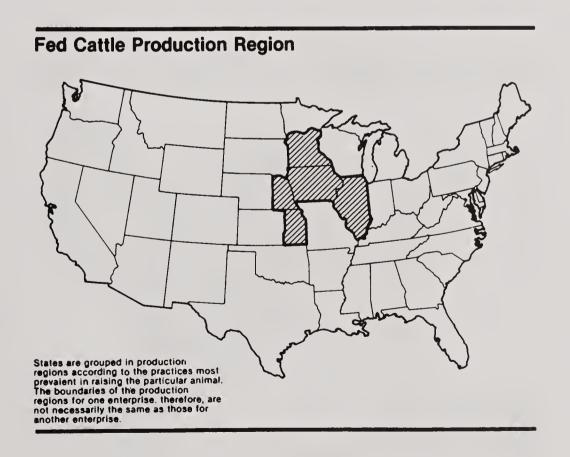
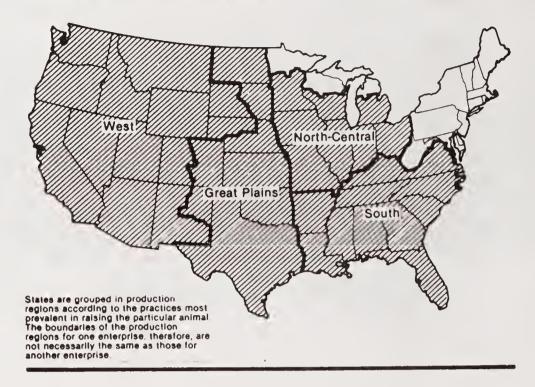


Figure 15 Costs and returns of sheep production, 1972-90

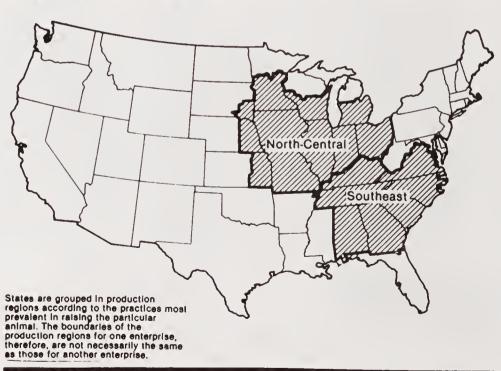




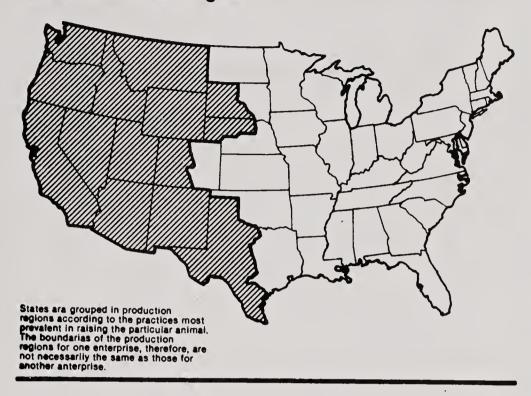
## **Cow-Calf Production Regions**



# **Hog Production Regions**



# **Sheep Production Region**



### **Dairy Production Regions**

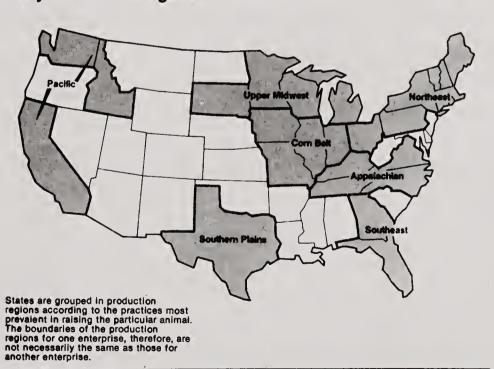


Table 1A--U.S. milk production cash costs and returns, per cow, 1989-90

Item	1989	1990
	Dol	lars
Cash receipts:	1 000 55	2 000 01
Milk Cattle	1,988.55 198.50	2,082.81 215.66
Total	2,187.05	2,298.47
Coch expenses:		
Cash expenses: Feed		
Concentrates (8,034 lbs) 1/	590.70	637,13
Byproducts (1,020 lbs)	47.00	45.95
Hay (7,724 lbs)	199.50 133.30	204.22 127.20
Silage (15,848 lbs) Pasture and other forage	21.50	20.59
Other	21.50	20.33
Milk hauling and marketing	85.70	91.01
Artificial insemination	17.70	18.72
Veterinary and medicine	30.60	31.96
Livestock hauling	3.80	4.00
Fuel, lube, and electricity	22.50	25.19
Machinery and building repairs	68.00	69.59
Hired labor	118.90	124.18
DHIA fees	7.60	8.04 31.94
Dairy supplies	30,90 0	.81
Dairy assessment Miscellaneous	1.10	1.18
Total, variable cash expenses .	1,378.80	
	-,	
General farm overhead	132.90	137.39
Taxes and insurance	29.00	30.34
Interest	109.80	108.35
Total, fixed cash expenses	271.70	276,08
Total, cash expenses	1,650.50	1,717.79
Cash receipts less cash expenses	536.55	580.68
Capital replacement	238,60	
Total, cash expenses and replacement	1,889.10	1,971.31
Net cash returns	297.95	327.16
Table 1BU.S. milk production economic costs and returns, pe		
Item	1989	1990
		lars
Total, cash receipts	2,187.34	2,298.47
Formaria (full expension) costs:		
Economic (full ownership) costs:	1 379 80	1,441.71
Variable cash expenses	· ·	137.39
Variable cash expenses General farm overhead		
Variable cash expenses General farm overhead Taxes and insurance		30.34
General farm overhead Taxes and insurance	29.00 238.60	
General farm overhead	29.00	253.52
General farm overhead Taxes and insurance Capital replacement	29.00 238.60	253.52 13.46
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	29.00 238.60 13.90 82.30 31.30	253.52 13.46 88.88 31.87
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/ Unpaid labor (49.11 hrs)	29.00 238.60 13.90 82.30 31.30 264.90	253.52 13.46 88.88 31.87 277.66
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	29.00 238.60 13.90 82.30 31.30 264.90	253.52 13.46 88.88 31.87
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/ Unpaid labor (49.11 hrs)	29.00 238.60 13.90 82.30 31.30 264.90 2,171.70	253.52 13.46 88.88 31.87 277.66 2,274.83

Table 2A--U.S. milk production cash costs and returns, per cwt, 1989-90

Item	1989	1990
Cash receipts:	<u>Dol</u>	lars
Milk	13.50	13.70
Cattle	1.35	1.42
Total	14.85	15.1
Cash expenses:		
Feed		
Concentrates (54.5 lbs) 1/	4.01	4.19
Byproducts (6.9 lbs)	. 32	. 3
Hay (52.5 lbs)	1.35	1.3
Silage (107.6 lbs)	.90	. 8
Pasture and other forage	.15	. 1
Other-		_
Milk hauling and marketing	. 58	. 6
Artificial insemination	.12	.1:
Veterinary and medicine	. 21	. 2
Livestock hauling	. 03	. 03
Fuel, lube, and electricity	.15	.1
Machinery and building repairs	. 46	. 41
Hired labor	.81	, 8:
DHIA fees	.05	. 0
Dairy supplies	. 21	. 2
Dairy assessment .	0	.0
Miscellaneous	.01	.0
Total, variable cash expenses	9.36	9.5
General farm overhead	.90	. 9
Taxes and insurance	.20	. 2
Interest	.75	.7:
Total, fixed cash expenses	1.85	1.8
Total, cash expenses	11.21	11.3
ash receipts less cash expenses	3,64	3.8
apital replacement	1.62	1.6
Total, cash expenses and replacement	12.83	12.9
let cash returns	2.02	2.14
able 2BU.S. milk production economic costs and returns	, per cwt, 1989-90	
Item	1989	1990
		lars
otal, cash receipts	14.85	15.13
conomic (full ownership) costs:		
Variable cash expenses	9.36	9.5
General farm overhead	. 90	. 9
Taxes and insurance	.20	. 2
Capital replacement	1.62	1.6
Operating capital 2/	.09	. 0
Other nonland capital 3/	. 56	. 5
Land 4/	. 21	. 2
W 4/1 × 1	1.80	1.8
Unpaid labor (0.33 hr)	1.00	2.0

See footnotes at end of Table 55B.

Residual returns to management and risk

.11 .14

Table 3A--Appalachia milk production cash costs and returns, per cow, 1989-90

Cash receipts:         Dill           Catle         1,880,34         2,025,36           Total         186,97         22,213           Cash expenses:         Feature states (6,572 lbs) 1/ Contentrates (6,572 lbs) 1/ Seature (861 lbs)         544,97         672,94           Dyproduct (861 lbs)         1124,43         124,45         124,45           Silage (18,205 lbs)         112,44         124,45         124,45           Silage (18,205 lbs)         110,89         20,78           Other—Milk hauling and marketing         110,89         114,18           Artificial insemination         16,29         117,23           Veterinary and medicine         29,08         30,42           Livestock hauling         2,26         22,77           Fuel, lube, and electricity         22,81         25,77           Machinery and building repairs         53,38         54,75           Hired labor         152,45         157,55           Dairy assessment         0         2,75           Dairy assessment         0         2,75           Total, variable cash expenses         1,373,24         1,426           Total, variable cash expenses         1,570,01         1,627,81           Total, fixed cash expenses	Item	1989	1990
Milk Cattle 166.9 (2015)         1,860.34 (2,025.36)         2,067.31 (2,227.33)           Cash expenses:         Feed***         Feed****         Feed****         Feed****         Feed****         644.97 (72.94 moles)         672.94 moles)         672.94 moles)         34.06 (34.06 moles)         34.06 (34.06 moles)         34.08 (34.06 moles) <t< td=""><td></td><td><u>Do 1</u></td><td>lars</td></t<>		<u>Do 1</u>	lars
Catle		1 880 34	2 025 38
Cash expenses:   Feed			•
Cash         expender         644.97         672.94           Concentrates (6,572 lbs) 1/         644.97         672.94         89 products (861 lbs)         34.08         32.08         22.09         20.08         20.28         20.27         20.08         20.27         20.08         30.22         20.08         30.42         21.18         20.27         20.08         30.42         21.28         21.22         21.22         22.11         22.22         21.22         22.11         22.22         22.22         21.22         22.24         12.22         21.22         22.24         12.22         21.22         22.24         12.22         21.22         23.12         23.12         23.12         23.12         23.23         23.23         23.23         23.23         23.23         23.23         23.23         23.23	Total	•	2,227.33
Feed			
Byproducts (65] lbs)   34.08   34.08   34.08   34.08   34.08   34.08   34.08   34.08   34.08   34.08   31.24   31.24   31.24   31.24   31.24   31.24   31.24   31.24   31.24   31.24   31.24   31.25   31.26   31.25   31.25   31.25   31.25   32.078   32.079   32.07	•		
Hay (7,771 bbs)			
Silage (18,205 bs)			
Pasture and other forage   21.69   20.78			
Other			
Milk hauling and marketing       110.89       114.18         Artificial insemination       16.29       17.23         Veterinary and medicine       29.08       30.42         Livestock hauling       2.62       2.74         Fuel, lube, and electricity       28.1       25.77         Machinery and building repairs       53.38       54.74         Hired labor       152.45       157.35         DHIA fees       5.56       5.88         Dairy supplies       38.93       40.35         Dairy sassessment       0       73         Miscellaneous       2.85       2.95         Total, variable cash expenses       1,373.24       1,426.18         General farm overhead       111.22       115.27         Taxes and insurance       13.37       14.01         Interest       73.18       72.35         Total, fixed cash expenses       1,571.01       1,627.81         Cash receipts less cash expenses       496.30       599.52         Captral replacement       213.32       228.11         Total, cash expenses and replacement       1,784.33       1,655.92         Net cash returns       2,067.31       2,227.33         Economic (full ownership) costs:		21.69	20.76
Artificial insemination		110.89	114.18
Veterinary and medicine			
Livestock hauling		29.08	30.42
Machinery and building repairs         53.38         54.74           Hired labor         152.45         157.35           DHTA fees         5.56         5.88           Dairy supplies         38.93         40.35           Dairy assessment         0         .73           Miscellaneous         2.85         2.95           Total, variable cash expenses         1,373.24         1,428.18           General farm overhead         111.22         115.27           Taxes and insurance         13.37         14.01           Interest         73.18         72.35           Total, fixed cash expenses         197.77         201.63           Total, cash expenses         496.30         599.52           Capital replacement         213.32         228.11           Total, cash expenses and replacement         1,784.33         1,855.92           Net cash returns         282.98         371.41           Table 3BAppalachia milk production economic costs and returns, per cow, 1989-90         1989-90           Item         1989         1990           Total, cash receipts         2,067.31         2,227.33           Economic (full ownership) costs:         2,067.31         2,227.33           Economic (full owne	•	2.62	2.74
Machinery and building repairs   53.38   54.74   Hired labor   152.45   157.35   DHIA fees   5.56   5.88   Dairy supplies   38.93   40.35   Dairy assessment   0   7.3   Miscellaneous   2.85   2.95   Total, variable cash expenses   1,373.24   1,426.18   General farm overhead   111.22   115.27   Taxes and insurance   13.37   14.01   Interest   73.18   72.35   Total, fixed cash expenses   197.77   201.63    Total, cash expenses   1,571.01   1,627.81    Cash receipts less cash expenses   496.30   599.52   Capital replacement   213.32   228.11   Total, cash expenses   496.30   599.52    Net cash returns   282.98   371.41    Table 3BAppalachia milk production economic costs and returns, per cow, 1989-90    Item   1989   1990    Dollars    Total, cash receipts   2,067.31   2,227.33    Economic (full ownership) costs:   Variable cash expenses   1,373.24   1,426.18   General farm overhead   111.22   115.27   Taxes and insurance   13.37   14.01   Capital replacement   213.32   228.11   Operating capital 2/   13.80   13.32   Other nonland capital 3/   68.49   74.16   Land 4/ (19.66 hrs)   307.07   316.93   Total, economic costs   2,147.36   2,233.38    Residual returns to management and risk   -80.05   -6.05		22.81	25.77
DHIA fees		53.38	54.74
Dairy supplies   38.93   40.35	Hired labor	152.45	157.35
Dairy assessment   0   7.73	DHIA fees	5 <b>.56</b>	5.88
Miscellaneous	Dairy supplies	38.93	
Total, variable cash expenses   1,373.24   1,426.18	Dairy assessment		
Taxes and insurance			
Taxes and insurance 13.37 14.01 Interest 73.18 72.35 Total, fixed cash expenses 197.77 201.63 Total, cash expenses 1,571.01 1,627.81 Total, cash expenses 496.30 599.52 Capital replacement 213.32 228.11 Total, cash expenses 496.30 599.52 Capital replacement 1,784.33 1,855.92 Net cash returns 282.98 371.41 Total, cash expenses and replacement 282.98 371.41 Total, cash returns 282.98 371.41 Total, cash returns 282.98 371.41 Total, cash receipts 2,067.31 2,227.33 Total, cash receipts 2,067.31 2,227.33 Total, cash receipts 2,067.31 2,227.33 Total, cash expenses 1,373.24 1,426.18 General farm overhead 111.22 115.27 Taxes and insurance 13.37 14.01 Capital replacement 213.32 228.11 Operating capital 2/ 13.80 13.32 (228.11 Operating capital 2/ 13.80 13.32 (238.11 Operating	Total, variable cash expenses .	1,373.24	1,426.18
Interest	General farm overhead	111.22	115.27
Total, fixed cash expenses 197.77 201.63  Total, cash expenses 1,571.01 1,627.81  Cash receipts less cash expenses 496.30 599.52  Capital replacement 213.32 228.11  Total, cash expenses and replacement 1,784.33 1,855.92  Net cash returns 282.98 371.41  Table 3BAppalachia milk production economic costs and returns, per cow, 1989-90  Item 1989 1990  Dollars  Total, cash receipts 2,067.31 2,227.33  Economic (full ownership) costs:  Variable cash expenses 1,373.24 1,426.18  General farm overhead 111.22 115.27  Taxes and insurance 13.37 14.01  Capital replacement 213.32 228.11  Operating capital 2/ 13.80 13.32  Other nonland capital 3/ 68.49 74.16  Land 4/ 46.85 45.40  Unpaid labor (61.66 hrs) 307.07 316.93  Total, economic costs 2,147.36 2,233.38  Residual returns to management and risk -80.05 -6.05	Taxes and insurance	13.37	14.01
Total, cash expenses 1,571.01 1,627.81  Cash receipts less cash expenses 496.30 599.52 Capital replacement 213.32 228.11 Total, cash expenses and replacement 1,784.33 1,855.92  Net cash returns 282.98 371.41  Table 3BAppalachia milk production economic costs and returns, per cow, 1989-90  Item 1989 1990  Dollars  Total, cash receipts 2,067.31 2,227.33  Economic (full ownership) costs:  Variable cash expenses 1,373.24 1,426.18 General farm overhead 111.22 115.27 Taxes and insurance 13.37 14.01 Capital replacement 213.32 228.11 Operating capital 2/ 13.80 13.32 Other nonland capital 3/ 68.49 74.16 Land 4/ 46.85 45.40 Unpaid labor (61.66 hrs) 307.07 316.93 Total, economic costs 2,147.36 2,233.38  Residual returns to management and risk -80.05 -6.05	Interest	73.18	72.35
Cash receipts less cash expenses       496.30       599.52         Capital replacement       213.32       228.11         Total, cash expenses and replacement       1,784.33       1,855.92         Net cash returns       282.98       371.41         Table 3BAppalachia milk production economic costs and returns, per cow, 1989-90         Item       1989       1990         Dollars         Total, cash receipts       2,067.31       2,227.33         Economic (full ownership) costs:       Variable cash expenses       1,373.24       1,426.18         General farm overhead       111.22       115.27         Taxes and insurance       13.37       14.01         Capital replacement       213.32       228.11         Operating capital 2/       13.80       13.32         Other nonland capital 3/       68.49       74.16         Land 4/       46.85       45.40         Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05	Total, fixed cash expenses	197.77	201.63
Capital replacement         213.32         228.11           Total, cash expenses and replacement         1,784.33         1,855.92           Net cash returns         282.98         371.41           Table 3BAppalachia milk production economic costs and returns, per cow, 1989-90           Item         1989         1990           Dollars           Total, cash receipts         2,067.31         2,227.33           Economic (full ownership) costs:           Variable cash expenses         1,373.24         1,426.18           General farm overhead         111.22         115.27           Taxes and insurance         13.37         14.01           Capital replacement         213.32         228.11           Operating capital 2/         13.80         13.32           Other nonland capital 3/         68.49         74.16           Land 4/         46.85         45.40           Unpaid labor (61.66 hrs)         307.07         316.93           Total, economic costs         2,147.36         2,233.38           Residual returns to management and risk         -80.05         -6.05	Total, cash expenses	1,571.01	1,627.81
Capital replacement         213.32         228.11           Total, cash expenses and replacement         1,784.33         1,855.92           Net cash returns         282.98         371.41           Table 3BAppalachia milk production economic costs and returns, per cow, 1989-90           Item         1989         1990           Dollars           Total, cash receipts         2,067.31         2,227.33           Economic (full ownership) costs:           Variable cash expenses         1,373.24         1,426.18           General farm overhead         111.22         115.27           Taxes and insurance         13.37         14.01           Capital replacement         213.32         228.11           Operating capital 2/         13.80         13.32           Other nonland capital 3/         68.49         74.16           Land 4/         46.85         45.40           Unpaid labor (61.66 hrs)         307.07         316.93           Total, economic costs         2,147.36         2,233.38           Residual returns to management and risk         -80.05         -6.05	Cash receipts less cash expenses	496.30	599.52
Net cash returns   282.98   371.41		213.32	228.11
Table 3BAppalachia milk production economic costs and returns, per cow, 1989-90    Item	Total, cash expenses and replacement	1,784.33	1,855.92
Total, cash receipts   2,067.31   2,227.33	Net cash returns	282.98	371.41
Dollars           Total, cash receipts         2,067.31         2,227.33           Economic (full ownership) costs:         Variable cash expenses         1,373.24         1,426.18           General farm overhead         111.22         115.27           Taxes and insurance         13.37         14.01           Capital replacement         213.32         228.11           Operating capital 2/         13.80         13.32           Other nonland capital 3/         68.49         74.16           Land 4/         46.85         45.40           Unpaid labor (61.66 hrs)         307.07         316.93           Total, economic costs         2,147.36         2,233.38           Residual returns to management and risk         -80.05         -6.05	Table 3BAppalachia milk production economic costs and	returns, per cow, 1989-9	0
Dollars           Total, cash receipts         2,067.31         2,227.33           Economic (full ownership) costs:         Variable cash expenses         1,373.24         1,426.18           General farm overhead         111.22         115.27           Taxes and insurance         13.37         14.01           Capital replacement         213.32         228.11           Operating capital 2/         13.80         13.32           Other nonland capital 3/         68.49         74.16           Land 4/         46.85         45.40           Unpaid labor (61.66 hrs)         307.07         316.93           Total, economic costs         2,147.36         2,233.38           Residual returns to management and risk         -80.05         -6.05			
Total, cash receipts 2,067.31 2,227.33  Economic (full ownership) costs:  Variable cash expenses 1,373.24 1,426.18 General farm overhead 111.22 115.27 Taxes and insurance 13.37 14.01 Capital replacement 213.32 228.11 Operating capital 2/ 13.80 13.32 Other nonland capital 3/ 68.49 74.16 Land 4/ Unpaid labor (61.66 hrs) 307.07 316.93 Total, economic costs 2,147.36 2,233.38  Residual returns to management and risk -80.05 -6.05			1990
Economic (full ownership) costs:  Variable cash expenses 1,373.24 1,426.18 General farm overhead 111.22 115.27 Taxes and insurance 13.37 14.01 Capital replacement 213.32 228.11 Operating capital 2/ 13.80 13.32 Other nonland capital 3/ 68.49 74.16 Land 4/ 46.85 45.40 Unpaid labor (61.66 hrs) 307.07 316.93 Total, economic costs 2,147.36 2,233.38  Residual returns to management and risk -80.05 -6.05		<u>Do1</u>	lars
Economic (full ownership) costs:         Variable cash expenses       1,373.24       1,426.18         General farm overhead       111.22       115.27         Taxes and insurance       13.37       14.01         Capital replacement       213.32       228.11         Operating capital 2/       13.80       13.32         Other nonland capital 3/       68.49       74.16         Land 4/       46.85       45.40         Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05			
Variable cash expenses       1,373.24       1,426.18         General farm overhead       111.22       115.27         Taxes and insurance       13.37       14.01         Capital replacement       213.32       228.11         Operating capital 2/       13.80       13.32         Other nonland capital 3/       68.49       74.16         Land 4/       46.85       45.40         Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05			
General farm overhead       111.22       115.27         Taxes and insurance       13.37       14.01         Capital replacement       213.32       228.11         Operating capital 2/       13.80       13.32         Other nonland capital 3/       68.49       74.16         Land 4/       46.85       45.40         Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05			
Taxes and insurance       13.37       14.01         Capital replacement       213.32       228.11         Operating capital 2/       13.80       13.32         Other nonland capital 3/       68.49       74.16         Land 4/       46.85       45.40         Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05	•		
Capital replacement       213.32       228.11         Operating capital 2/       13.80       13.32         Other nonland capital 3/       68.49       74.16         Land 4/       46.85       45.40         Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05			
Operating capital 2/       13.80       13.32         Other nonland capital 3/       68.49       74.16         Land 4/       46.85       45.40         Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05		13.3/	228 11
Other nonland capital 3/       68.49       74.16         Land 4/       46.85       45.40         Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05			
Land 4/       46.85       45.40         Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05	* * *		
Unpaid labor (61.66 hrs)       307.07       316.93         Total, economic costs       2,147.36       2,233.38         Residual returns to management and risk       -80.05       -6.05			
Residual returns to management and risk -80.05 -6.05	Land 4/		
		2 1/7 36	2,233.38
	Unpaid labor (61.66 hrs)	2,147.36	
rounds of milk per unit.	Unpaid labor (61.66 hrs) Total, economic costs  Residual returns to management and risk	-80.05	

Table 4A--Appalachia milk production cash costs and returns, per cwt, 1989-90

Item	1989	1990
Cash receipts:		lars
Milk	14.00	14.80
Cattle	1.39	1.48
Total	15.39	16.28
Cash expenses:		
Feed		
Concentrates (48.9 lbs) 1/	4.80	4.92
Byproducts (6.4 lbs) Hay (57.9 lbs)	.25	. 25
Silage (135.5 lbs)	. 93 . 84	. 91
Pasture and other forage	.16	. 15
Other	.10	
Milk hauling and marketing	. 82	. 83
Artificial insemination	. 12	. 13
Veterinary and medicine	.22	. 22
Livestock hauling	.02	. 02
Fuel, lube, and electricity	. 17	. 19
Machinery and building repairs	. 40	. 40
Hired labor	1.14	1.15
DHIA fees	. 04	.04
Dairy supplies	. 29	.29
Dairy assessment	0	.01
Miscellaneous	.02	. 02
Total, variable cash expenses	10.22	10.42
General farm overhead	. 83	. 84
Taxes and insurance	. 10	. 10
Interest Total, fixed cash expenses	. 54 1.47	. 53 1 . 47
Total, cash expenses	11.69	11.89
Cash receipts less cash expenses	3.70	4.39
Capital replacement	1,59	1.67
Total, cash expenses and replacement	13.28	13.56
et cash returns	2.11	2.72
able 4BAppalachia milk production economic costs and re		)
Item	1989	
		lars
otal, cash receipts	15.39	16.28
conomic (full ownership) costs:		
Variable cash expenses	10.22	10.42
General farm overhead	.83	. 84
Taxes and insurance	.10	.10
Capital replacement	1.59	1.67
Operating capital 2/	.10	. 10
Other nonland capital 3/	. 51	. 54
Land 4/	.35	. 33
Unpaid labor (0.46 hr)	2.29	2.32
Total, economic costs	15.99	16.32
	60	

See footnotes at end of Table 55B.

Item	1989	1990
	Dol	lars
Cash receipts: Milk	1,852.01	1,924.91
Milk Cattle	218.89	236.95
Total	2,070.90	2,161.86
Cash expenses:		=========
Feed		
Concentrates (8,153 lbs) 1/	582.85	626.35
Byproducts (333 lbs)	16.98 173.91	14.46 156.01
Hay (8,643 lbs) Silage (11,133 lbs)	69.92	63.34
Pasture and other forage	28.08	25.80
Other*-		
Milk hauling and marketing	88.46	93.51
Artificial insemination	15.30	16.19
Veterinary and medicine	39.81	41.65
Livestock hauling	2.86	3.00
Fuel, lube, and electricity	31.34 64,32	35.41
Machinery and building repairs Hired labor	86.03	65.96 87.88
DHIA fees	8.63	9.13
Dairy supplies	31.35	32.49
Dairy assessment	0	.76
Miscellaneous	.64	. 66
Total, variable cash expenses	1,240.48	1,272.60
General farm overhead	120.53	124.92
Taxes and insurance	26.49	27.77
Interest	128.81	127.34
Total, fixed cash expenses	275.83	280.03
Total, cash expenses	1,516.31	1,552.63
Cash receipts less cash expenses	554.59	609.23
Capital replacement	197.18	
Total, cash expenses and replacement	1,713.49	1,761.63
Net cash returns	357.41	400.23
Table 5BCorn Belt milk production economic costs and returns,		)
Item		1990
		lars
Total, cash receipts	·	2,161.86
Economic (full ownership) costs:		1 070 60
Variable cash expenses General farm overhead	1,240.48	1,272.60 124.92
Taxes and insurance	26.49	
Capital replacement	197.18	209.00
Operating capital 2/	12.47	
Other nonland capital 3/	78.15	
Land 4/	69.54	
Unpaid labor (75.37 hrs)		428.86
Total, economic costs	2,164.65	2,231.30
Residual returns to management and risk	-93.75	
Pounds of milk per unit	13,821	14,365
See footnotes at end of Table 55B.		

Cash receipts: Milk Cattle		
Milk	<u>D01.</u>	lars
Cabble	13.40	
Total	1.58 14.98	1.65 15.05
•		
Cash expenses: Feed		
Concentrates (59 lbs) 1/	4.22	4.36
Byproducts (2.4 lbs)	. 12	. 10
Hay (62.5 lbs)	1.26	1.09
Silage (80.6 lbs)	. 51	. 44
Pasture and other forage	, 20	. 18
Other		
Milk hauling and marketing	. 64	. 66
Artificial insemination  Veterinary and medicine	. 11	. 1:
Livestock hauling	. 29 . 02	. 29
Fuel, lube, and electricity	. 23	. 02
Machinery and building repairs	. 47	. 48
Hired labor	. 62	. 6:
DHIA fees	,06	. 08
Dairy supplies	. 23	. 23
Dairy assessment	0	. 01
Miscellaneous	0	0
Total, variable cash expenses	8.98	8.87
General farm overhead	. 87	. 87
Taxes and insurance	. 19	. 19
Interest	. 93	. 89
Total, fixed cash expenses	1.99	1.95
Total, cash expenses	10.97	10.82
Cash receipts less cash expenses	4.01	4.23
Capital replacement	1.43	1.45
Total, cash expenses and replacement	12.40	12.27
Wet cash returns	2.58	2.78
Table 6BCorn Belt milk production economic costs and return	ns, per cwt, 1989-90	
Item	1989	
	<u>Dol1</u>	ars
Total, cash receipts	14.98	
Conomic (full ownership) costs:		
Variable cash expenses	8.98	8.87
General farm overhead	. 87	. 87
Taxes and insurance	.19	. 19
	1.43	1.45
Capital replacement	.09	. 08
Capital replacement Operating capital 2/		. 59
Capital replacement Operating capital 2/ Other nonland capital 3/	. 57	
Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	. 50	
Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/ Unpaid labor (0.55 hr)	. 50 3 . 04	2.99
Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	. 50	.50 2.99 15.54

TA	1989	1990
Item		
Cash receipts:	<u>Do1</u>	lars
Milk	2,020.67	2,123,72
Cattle	186.50	203.57
Total	2,207.17	2,327.29
Cash expenses: Feed		
Concentrates (7,764 lbs) 1/	647.98	688.88
Byproducts (445 lbs)	12.06	10.27
Hay (6,871 lbs)	140.80	147.31
Silage (21,307 lbs)	140.34	130.99
Pasture and other forage	21.88	22.38
Other Milk hauling and marketing	89.54	92.43
Artificial insemination	20.97	22.19
Veterinary and medicine	31.43	32.88
Livestock hauling	3.10	3.25
Fuel, lube, and electricity	16.67	18.84
Machinery and building repairs	85.73	87.92
Hired labor	88.05	91.96
DHIA fees	9.69 33.39	10.25 34.60
Dairy supplies Dairy assessment	0	.77
Miscellaneous	. 22	. 23
Total, variable cash expenses	1,341.85	1,395.15
General farm overhead	158.25	164.01
Taxes and insurance	35.76	37.48
Interest	117.42	116.08
Total, fixed cash expenses	311.43	317.57
Total, cash expenses	1,653.28	1,712.72
Cash receipts less cash expenses	553.89	614.57
Capital replacement	265.07	280.57
Total, cash expenses and replacement	1,918.35	1,993.29
Net cash returns	288.82	334.00
Table 7BNortheast milk production economic costs and ret	urns, per cow, 1989-90	)
Item		1990
		lars
Total, cash receipts	2,207.17	2,327.29
Economic (full ownership) costs:		
Variable cash expenses	1,341.85	1,395.15
General farm overhead Taxes and insurance	158.25 35.76	
Capital replacement		280.57
Operating capital 2/	12 40	12 02
Other nonland capital 3/	97.76	105.85
Land 4/	37.17	36.21
Unpaid labor (61.23 hrs)	344.72	
Total, economic costs	2,294.07	2,392.33
Residual returns to management and risk	-86.90	
Pounds of milk per unit	14,331	14,546
See footnotes at end of Table 55B.		

Table 8A--Northeast milk production cash costs and returns, per cwt, 1989-90

Item	1989	1990	
	<u>Dol</u>	Dollars	
Cash receipts: Milk			
Cattle	14.10	14.60	
Total	1.30 15.40	1.40 16.00	
***************************************			
Cash expenses:			
Feed			
Concentrates (54.2 lbs) 1/	4,52	4.74	
Byproducts (3.1 lbs) Hay (47.9 lbs)	.08	. 07	
Silage (148.7 lbs)	. 98 . 98	1.01	
Pasture and other forage	. 15	. 15	
Other	. 13	.13	
Milk hauling and marketing	. 63	.64	
Artificial insemination	. 15	. 15	
Veterinary and medicine	. 22	. 23	
Livestock hauling	. 02	. 02	
Fuel, lube, and electricity	. 12	.13	
Machinery and building repairs Hired labor	. 60	. 60	
DHIA fees	. 61	. 63	
Dairy supplies	.07	. 07	
Dairy assessment	. 23	.01	
Miscellaneous	0	0	
Total, variable cash expenses	9.36	9.59	
General farm overhead	1.10	1.13	
Taxes and insurance	. 25	. 26	
Interest	. 82	. 80	
Total, fixed cash expenses	2.17	2.19	
Total, cash expenses	11.53	11.78	
Cash receipts less cash expenses	3.87	4.22	
Capital replacement	1.85	1.93	
Total, cash expenses and replacement	13.38	13.71	
Net cash returns	2.02	2.29	
Table 8BNortheast milk production economic costs and retu	ırns, per cwt, 1989-90		
Item	1989	1990	
	<u>Dollars</u>		
Total, cash receipts	15.40	16.00	
Economic (full ownership) costs:		=======	
***************************************		9.59	
Economic (full ownership) costs:  Variable cash expenses	9.36	9.59	
Economic (full ownership) costs:  Variable cash expenses General farm overhead	9.36 1.10	9.59 1.13	
Economic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/	9.36 1.10 .25 1.85 .09	9.59 1.13 .26 1.93	
Economic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/	9.36 1.10 .25 1.85 .09 .68	9.59 1.13 .26 1.93 .09	
Economic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	9.36 1.10 .25 1.85 .09 .68 .26	9.59 1.13 .26 1.93 .09 .73	
Economic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/ Unpaid labor (0.43 hr)	9.36 1.10 .25 1.85 .09 .68 .26 2.41	9.59 1.13 .26 1.93 .09 .73 .25 2.48	
Economic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	9.36 1.10 .25 1.85 .09 .68 .26	9.59 1.13 .26 1.93 .09 .73 .25 2.48	
Economic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/ Unpaid labor (0.43 hr)	9.36 1.10 .25 1.85 .09 .68 .26 2.41	9.59 1.13 .26 1.93 .09 .73 .25 2.48 16.46	

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Item	1989	1990	
	<u>Do1</u>	<u>Dollars</u>	
Cash receipts:	2 101 25	0 1// 7	
Milk	2,101.25	2,144.7 188.3	
Cattle	2,274.47		
Total			
Cash expenses: Feed			
Concentrates (7,453 lbs) 1/	544.17	575.1	
Byproducts (2,347 lbs)	125.99	123.1	
Hay (8,727 lbs)	349.92	375.7	
Silage (12,520 lbs)	129.23	136.8	
Pasture and other forage	17.79	20.8	
Other			
Milk hauling and marketing	86.58	91.4	
Artificial insemination	17.74	18.7	
Veterinary and medicine	22.94	24.0	
Livestock hauling	3.65	3.8	
Fuel, lube, and electricity	33.46	36.3	
Machinery and building repairs	55.09	56.4	
Hired labor	166.71	167.7	
DHIA fees	7.98	8.4	
Dairy supplies	27.50	28.5	
Dairy assessment	0	.9	
Micellaneous	.37	. 3	
Total, variable cash expenses	1,589.12	1,668.6	
General farm overhead	106.67	110.5	
Taxes and insurance	21.17	22.1	
Interest	97.12	96.0	
Total, fixed cash expenses	224.96	228.7	
Total, cash expenses	1,814.08	1,897.3	
ash receipts less cash expenses	460.39	435.6	
Capital replacement	200.06		
Total, cash expenses and replacement	2,014.14		
let cash returns	260.33	222.7	
Table 9BPacific milk production economic costs and ret		1990	
		lars	
Total, cash receipts	2,274.47		
otal, cash receipts			
conomic (full ownership) costs:			
	1,589.12		
Variable cash expenses	106.67	110.5	
General farm overhead	21.17	22.1	
General farm overhead Taxes and insurance		212.9	
General farm overhead Taxes and insurance Capital replacement	200.06		
General farm overhead Taxes and insurance Capital replacement Operating capital 2/	15.97		
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/	15.97 67.09	72.6	
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	15.97 67.09 10.78	72.6 11.5	
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/ Unpaid labor (14.09 hrs)	15.97 67.09 10.78 92.43	72.6 11.5 92.9	
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	15.97 67.09 10.78	72.6 11.5 92.9	
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/ Unpaid labor (14.09 hrs)	15.97 67.09 10.78 92.43 2,103.29	72.6 11.5 92.9 2,207.0	

Table 10A--Pacific milk production cash costs and returns, per cwt, 1988-90

Item	1989	 1990
Cash receipts:	<u>Do1</u>	lars
Milk	12.50	12.20
Cattle	1.03	1.07
Total	13.53	13.27
Cash expenses:		
Feed		
Concentrates (44.3 lbs) 1/	3.24	3.27
Byproducts (14 lbs)	.75	.70
Hay (51.9 1bs)	2.08	2.14
Silage (74.5 lbs) Pasture and other forage	. 77	.78
Other	.11	. 12
Milk hauling and marketing	52	5.2
Artificial insemination	. 52	. 52
Veterinary and medicine	.14	. 14
Livestock hauling	.02	.02
Fuel, lube, and electricity	.20	. 21
Machinery and building repairs	.33	.32
Hired labor	.99	.95
DHIA fees	.05	.05
Dairy supplies	.16	. 16
Dairy assessment	0	.01
Miscellaneous	0	0
Total, variable cash expenses	9.47	9.50
General farm overhead	.63	. 63
Taxes and insurance	.13	.13
Interest	.58	. 55
Total, fixed cash expenses	1.34	1.31
Total, cash expenses	10.81	10.81
Cash receipts less cash expenses	2.72	2.46
Capital replacement	1.19	1.21
Total, cash expenses and replacement	12.00	12.02
Net cash returns	1.53	1.25
Table 10BPacific milk production economic costs and ret		1000
Item	1989	1990 
	<u>Dol</u>	lars
Total, cash receipts	13.53	13.27
Economic (full ownership) costs:		
Variable cash expenses	9.47	9.50
General farm overhead	.63	.63
Taxes and insurance	. 13	. 13
Capital replacement	1.19	1.21
Operating capital 2/	.10	.09
Other nonland capital 3/	. 40	. 41
Land 4/	.06	.07
Unpaid labor (0.08 hr)	.55	. 53
Total, economic costs	12.53	12.57
Residual returns to management and risk	1.00	. 70
¥		

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Table 11A--Southeast milk production cash costs and returns, per cow, 1989-90

Item	1989	1990
	<u>Do 1</u>	lars
Cash receipts:	2,015.25	2,209.8
Milk Cattle	151.37	
Total	2,166,62	2,371.1
ash expenses: Feed		
Concentrates (11,867 lbs) 1/	966.36	1,021.3
Byproducts (2,990 lbs)	60.93	60.9
Hay (5,120 lbs)	132.12	
Silage (5,325 lbs)	52.19 13.02	55.0 16.0
Pasture and other forage Other	13.02	10.0
Milk hauling and marketing	134.94	142.9
Artificial insemination	13.02	13.7
Veterinary and medicine	27.86	29.1
Livestock hauling	1.86	1.9
Fuel, lube, and electricity	13.69	15.3
Machinery and building repairs	32.89 141.64	33.7 148.3
Hired labor DHIA fees	2.91	3.0
Dairy supplies	25.26	26.1
Dairy assessment	0	. 7
Miscellaneous	6.26	6.4
Total, variable cash expenses .	1,624.95	1,720.9
General farm overhead	55.25	57.2
Taxes and insurance	11.30	11.8
Interest	49.18	48.6
Total, fixed cash expenses	115.73	117.7
Total, cash expenses	.1,740.68	1,838.6
Cash receipts less cash expenses	425.94	532.5
Capital replacement	215.46	235.1
Total, cash expenses and replacement	1,956.14	2,073.7
let cash returns	210.48	297.4
Table 11BSoutheast milk production economic costs and	returns, per cow, 1989-9	90
Item	1080	1990
10GII		
	<u>Do1</u>	lars
Total, cash receipts	2,166.62	
Conomic (full ownership) costs:		
Variable cash expenses	1,624.95	
General farm overhead	55.25	
Taxes and insurance	11.30	
Capital replacement	215.46	
Operating capital 2/	16.33 49.93	54.0
Operating capital 2/	13.61	
Other nonland capital 3/		
Other nonland capital 3/ Land 4/		77.1
Other nonland capital 3/	73.63 2,060.46	
Other nonland capital 3/ Land 4/ Unpaid labor (12.85 hrs) Total, economic costs Residual returns to management and risk	73.63 2,060.46 106.16	2,187.1
Other nonland capital 3/ Land 4/ Unpaid labor (12.85 hrs) Total, economic costs	73.63 2,060.46 106.16	2,187.1

Table 12A--Southeast milk production cash costs and returns, per cwt, 1989-90

Total	Item	1989	1990
Milk   15.70   16.50   1.18   1.20   1.20   1.68   17.70   16.50   1.68   17.70   16.50   1.68   17.70   16.50   17.70   16.50   17.70   17.53   1.63   17.70   17.53   1.63   17.70   1.03   1.09   1.09   1.03   1.09   1.03   1.09   1.03   1.09   1.05   1.05   1.06   1.70   1.10		Dol	lars
Cash expenses: Feed Concentrates (92.5 lbs) 1/ Syproducts (23.3 lbs)			
Total 16.88 17.70  Cash expenses: Feed- Concentrates (92.5 lbs) 1/ 7.53 7.63 Byproducts (23.3 lbs)			
Cash expenses:  Feed Concentrates (92.5 lbs) 1/ Spyroducts (23.3 lbs) And (39.9 lbs) Silage (41.5 lb		=	
Cash expenses: Feed Concentrates (92.5 lbs) 1/ 7.53 7.63 Byproducts (23.3 lbs) .47 .63 Byproducts (23.3 lbs) .47 .63 Silage (41.5 lbs) .103 1.99 Silage (41.5 lbs) .41 .41 Pasture and other forage .10 .12 Other Milk hauling and marketing .105 1.06 Artificial insemination .10 .10 Veterinary and medicine .22 .22 Livestock hauling .01 .01 Fuel, lube, and electricity .11 .11 Machinery and building repairs .26 .25 Hired labor .100 .110 DHIA fees .02 .20 Dairy supplies .20 .20 Dairy supplies .20 .20 Dairy assessment .0 .01 Miscellaneous .05 .05 Total, variable cash expenses .12.66 12.84  General farm overhead .43 .43 Taxes and insurance .99 .99 Interest .38 .36 Total, fixed cash expenses .15.98 16.82 Capital replacement .15.24 15.48 Net cash returns .15.94 15.48 Net cash returns .15.94 15.48 Net cash returns .15.95 1989-90  Item .1989 1990		16.88	17.70
Concentrates (92.5 lbs) 1/			
Byproducts (23.3 lbs)	Feed		
Hay (39.9 lbs)	Concentrates (92.5 lbs) 1/	7.53	7.63
Hay (39,9 lbs)	Byproducts (23.3 lbs)	. 47	. 45
Silage (41.5 lbs)	Hay (39.9 lbs)		
Pasture and other forage	Silage (41.5 lbs)		
Otherr-       Milk hauling and marketing       1.05       1.06         Milk hauling and marketing       .10       .10         Artificial insemination       .10       .10         Veterinary and medicine       .22       .22         Livestock hauling       .01       .01         Fuel, lube, and electricity       .11       .11         Machinery and building repairs       .26       .25         Hired labor       1.10       1.11         DHIA fees       .02       .02         Dairy supplies       .20       .20         Dairy supplies       .20       .20         Dairy assessment       0       .01         Miscellaneous       .05       .05         Total, variable cash expenses       12.66       12.84         General farm overhead       .43       .43         Taxes and insurance       .09       .09         Interest       .38       .36         Total, fixed cash expenses       13.56       13.72         Cash receipts less cash expenses       15.98       16.82         Capital replacement       1.68       1.76         Total, cash expenses and replacement       15.24       15.48	Pasture and other forage		
Artificial insemination .10 .10 Veterinary and medicine .22 .22 Livestock hauling .01 .01 Fuel, lube, and electricity .11 .11 Machinery and building repairs .26 .25 Hired labor .02 .02 Dairy supplies .02 .02 Dairy supplies .20 .20 Dairy assessment .0 .05 .05 Total, variable cash expenses .12.66 .12.84  General farm overhead .43 .43 Taxes and insurance .09 .09 Interest .38 .36 Total, fixed cash expenses .13.56 .13.72  Cash receipts less cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses and replacement .15.24 .15.48  Set cash returns .1.64 .2.22  Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item .1989 .1990  Dollars	Other		
Artificial insemination .10 .10 Veterinary and medicine .22 .22 Livestock hauling .01 .01 Fuel, lube, and electricity .11 .11 Machinery and building repairs .26 .25 Hired labor .02 .02 Dairy supplies .02 .02 Dairy supplies .20 .20 Dairy assessment .0 .05 .05 Total, variable cash expenses .12.66 .12.84  General farm overhead .43 .43 Taxes and insurance .09 .09 Interest .38 .36 Total, fixed cash expenses .13.56 .13.72  Cash receipts less cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76 Total, cash expenses and replacement .15.24 .15.48  Set cash returns .1.64 .2.22  Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item .1989 .1990  Dollars	Milk hauling and marketing	1.05	1.06
Veterinary and medicine       .22       .22         Livestock hauling       .01       .01         Fuel, lube, and electricity       .11       .11         Machinery and building repairs       .26       .25         Hired labor       1.10       1.11         DHIA fees       .02       .02         Dairy supplies       .20       .20         Dairy sassessment       0       .01         Miscellaneous       .05       .05         Total, variable cash expenses       12.66       12.84         General farm overhead       .43       .43         Taxes and insurance       .09       .09         Interest       .38       .36         Total, fixed cash expenses       .90       .88         Total, cash expenses       13.56       13.72         Cash receipts less cash expenses       15.98       16.82         Capital replacement       1.68       1.76         Total, cash expenses and replacement       15.24       15.48         Met cash returns       1.64       2.22         Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90     Tem 1989 1990			
Livestock hauling Fuel, lube, and electricity	Veterinary and medicine	• =	
Fuel, lube, and electricity Machinery and building repairs  .26 .25 Hired labor 1.10 1.11 DHIA fees .02 .02 Dairy supplies .20 .20 Dairy assessment .00 .01 Miscellaneous .05 .05 Total, variable cash expenses .12.66 .2.84  General farm overhead .43 .43 Taxes and insurance .09 .09 Interest .38 .36 Total, fixed cash expenses .90 .88  Total, cash expenses .13.56 .13.72  Cash receipts less cash expenses .20 Capital replacement .16.8 .1.76 Total, cash expenses and replacement .15.24 .15.48  Net cash returns .1.64 .2.22  Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item .20 Dollars	·		
Machinery and building repairs       .26       .25         Hired labor       1.10       1.11         DHIA fees       .02       .02         Dairy supplies       .20       .20         Dairy assessment       0       .01         Miscellaneous       .05       .05         Total, variable cash expenses       12.66       12.84         General farm overhead       .43       .43         Taxes and insurance       .09       .09       .09         Interest       .38       .36         Total, fixed cash expenses       .90       .88         Total, cash expenses       13.56       13.72         Cash receipts less cash expenses       15.98       16.82         Capital replacement       1.68       1.76         Total, cash expenses and replacement       15.24       15.48         Met cash returns       1.64       2.22         Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90	The state of the s		
Hired labor DHIA fees			
DHIA fees		· -	
Dairy supplies			
Dairy assessment       0       .01         Miscellaneous       .05       .05         Total, variable cash expenses       12.66       12.84         General farm overhead       .43       .43         Taxes and insurance       .09       .09         Interest       .38       .36         Total, fixed cash expenses       .90       .88         Total, cash expenses       13.56       13.72         Cash receipts less cash expenses       15.98       16.82         Capital replacement       1.68       1.76         Total, cash expenses and replacement       15.24       15.48         Met cash returns       1.64       2.22         Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90       Dollars			
Miscellaneous       .05       .05         Total, variable cash expenses       12.66       12.84         General farm overhead       .43       .43         Taxes and insurance       .09       .09         Interest       .38       .36         Total, fixed cash expenses       .90       .88         Total, cash expenses       13.56       13.72         Cash receipts less cash expenses       15.98       16.82         Capital replacement       1.68       1.76         Total, cash expenses and replacement       15.24       15.48         Met cash returns       1.64       2.22         Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90       Pollars	·		
Total, variable cash expenses 12.66 12.84  General farm overhead .43 .43  Taxes and insurance .09 .09  Interest .38 .36  Total, fixed cash expenses .90 .88  Total, cash expenses .13.56 13.72  Cash receipts less cash expenses .15.98 16.82  Capital replacement .1.68 1.76  Total, cash expenses and replacement .15.24 15.48  Net cash returns .1.64 2.22  Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item .1989 1990  Dollars	· · · · · · · · · · · · · · · · · · ·	•	
Taxes and insurance       .09       .09         Interest       .38       .36         Total, fixed cash expenses       .90       .88         Total, cash expenses       13.56       13.72         Cash receipts less cash expenses       15.98       16.82         Capital replacement       1.68       1.76         Total, cash expenses and replacement       15.24       15.48         Met cash returns       1.64       2.22         Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90       1989       1990         Ltem       1989       1990         Dollars			
Taxes and insurance       .09       .09         Interest       .38       .36         Total, fixed cash expenses       .90       .88         Total, cash expenses       13.56       13.72         Cash receipts less cash expenses       15.98       16.82         Capital replacement       1.68       1.76         Total, cash expenses and replacement       15.24       15.48         Net cash returns       1.64       2.22         Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90       1989       1990         Item       1989       1990         Dollars	Community of the commun		
Interest			
Total, fixed cash expenses .90 .88  Total, cash expenses .13.56 .13.72  Cash receipts less cash expenses .15.98 .16.82 Capital replacement .1.68 .1.76  Total, cash expenses and replacement .15.24 .15.48  Met cash returns .1.64 .2.22  Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item .1989 .1990  Dollars			
Total, cash expenses 13.56 13.72  Cash receipts less cash expenses 15.98 16.82 Capital replacement 1.68 1.76     Total, cash expenses and replacement 15.24 15.48  Net cash returns 1.64 2.22  Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item 1989 1990  Dollars			
Cash receipts less cash expenses 15.98 16.82 Capital replacement 1.68 1.76     Total, cash expenses and replacement 15.24 15.48  Met cash returns 1.64 2.22 Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item 1989 1990  Dollars	Total, fixed cash expenses	. 90	. 88
Total, cash expenses and replacement 1.68 1.76 Total, cash expenses and replacement 15.24 15.48  Net cash returns 1.64 2.22  Table 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item 1989 1990  Dollars	Total, cash expenses	13.56	13.72
Total replacement	Cash receipts less cash expenses	15 98	16 82
Total, cash expenses and replacement 15.24 15.48  Net cash returns 1.64 2.22  Cable 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item 1989 1990  Dollars	· ·		
Table 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item 1989 1990  Dollars			
Table 12BSoutheast milk production economic costs and returns, per cwt, 1989-90  Item 1989 1990  Dollars	Net. cash returns	1 64	2 22
Item	Interest Total, fixed cash expenses  Total, cash expenses  Cash receipts less cash expenses  Capital replacement Total, cash expenses and replacement  Net cash returns		.38 .90 13.56 15.98 1.68 15.24
<u>Dol</u>	i re		
<u>Dollars</u>			
		Doll	lars

Item	1989	1990
	<u>Dol</u> :	lars
Total, cash receipts	16.88	17.70
Economic (full ownership) costs:	***************************************	
Variable cash expenses	12.66	12.84
General farm overhead	. 43	. 43
Taxes and insurance	.09	. 09
Capital replacement	1.68	1.76
Operating capital 2/	. 13	. 12
Other nonland capital 3/	.39	. 40
Land 4/	.11	. 11
Unpaid labor (0.1 hr)	. 57	. 58
Total, economic costs	16.06	16.33
Residual returns to management and risk	.82	1.37

Item	1989	1990
	<u>Do1</u>	lars
Cash receipts:	1,949.23	2,151.2
Milk Cattle	•	184.1
Total	2,117.83	
Cash expenses:		
Feed	500.00	016.0
Concentrates (8,838 lbs) 1/	688.20 77.38	816.8 80.2
Byproducts (2,271 lbs)	191.28	
Hay (8,048 lbs)	49.49	
Silage (2,992 lbs) Pasture and other forage	28.41	
Other	201	20.0
Milk hauling and marketing	103.29	115.2
Artificial insemination	4.38	4.6
Veterinary and medicine	24.22	
Livestock hauling	1.51	1.5
Fuel, lube, and electricity	13.51	15.2
Machinery and building repairs	38.35	39.3
Hired labor	156.39	156.3
DHIA fees	2.57	2.7
Dairy supplies	39.25	40.6
Dairy assessment	0	. 7
Miscellaneous	.11	. 1
Total, variable cash expenses	1,418.34	1,573.2
General farm overhead	73.07	75.7
Taxes and insurance	9.26	9.7
Interest	58.45	57.7
Total, fixed cash expenses	140.78	143.2
Total, cash expenses	1,559.12	1,716.5
Cash receipts less cash expenses	558.71	618.8
Capital replacement	274.87	298.2
Total, cash expenses and replacement	1,833.99	2,014.7
let cash returns	283.84	320.6
Table 13BSouthern Plains milk production economic cos		
Item		1990
	Dol	lars
Total, cash receipts	2,117.83	
conomic (Iull ownership) costs:	1,418.34	1,573,2
conomic (Iuli ownership) costs:  Variable cash expenses	73.07	
	9.26	9.7
Variable cash expenses		298.2
Variable cash expenses General farm overhead	274.87	
Variable cash expenses General farm overhead Taxes and insurance		14.6
Variable cash expenses General farm overhead Taxes and insurance Capital replacement	14.25 49.83	53.9
Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/	14.25	53.9
Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/	14.25 49.83 14.78	53.9 13.7
General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	14.25 49.83 14.78	13.7 163.8
Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/ Unpaid labor (30.62 hrs)	14.25 49.83 14.78 163.82 2,018.22	53.9 13.7 163.8 2,203.1

Table 14A--Southern Plains milk production cash costs and returns, per cwt, 1989-90

	1989 	1990
Saah maaalista.	Dol	<u>lars</u>
Cash receipts:  Milk		
Cattle	14.30	•
Total	1.24	1.2
	15.54	15.9 ======
Cash expenses:		
Feed		
Concentrates (64.8 lbs) 1/ Byproducts (16.7 lbs)	5.05	5.5
Hay (59 lbs)	. 57	. 5
Silage (22 lbs)	1.40	1.3
Pasture and other forage	. 36	.3
Other	.21	. 1
Milk hauling and marketing	.76	-
Artificial insemination	.03	.7
Veterinary and medicine	.18	
Livestock hauling	.01	.1
Fuel, lube, and electricity	.10	. 1
Machinery and building repairs	.28	. 2
Hired labor	1.15	
DHIA fees	.02	1.0
Dairy supplies	.02	0.
Dairy assessment	.29	. 2
Miscellaneous		.0
Total, variable cash expenses	0 10.41	0 10.7
Toda, variable dash expenses	10.41	10.7
General farm overhead	. 54	. 5
Taxes and insurance	.07	.0
Interest	.43	. 3
Total, fixed cash expenses	1.04	. 9
Total, cash expenses	11.45	11.7
Cash receipts less cash expenses	4.09	4.2
apital replacement	2.02	2.0
Total, cash expenses and replacement	13.47	13.7
et cash returns	2.07	2.1
able 1/P-Carebara Plains sills and the same in the sam	nd returns, per cwt,	1989-90
able 14bSouthern riains milk production economic costs an		
	1989	1990
	1989	1990 Lars
otal, cash receipts	1989 <u>Dol:</u> 15.54	<u>lars</u> 15.9
otal, cash receipts	1989 <u>Dol:</u> 15.54	<u>lars</u> 15.9
otal, cash receipts  conomic (full ownership) costs:	1989 <u>Dol:</u> 15.54	lars 15.9
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses	1989 Dol: 15.54 10.41	15.9
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses  General farm overhead	1989 Dol: 15.54 10.41 .54	15.9 10.7
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance	1989 Dol: 15.54 10.41 .54 .07	15.9 10.7 .5
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance  Capital replacement	1989  Dol:  15.54  10.41  .54  .07  2.02	15.9 10.7 .5
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses General farm overhead  Taxes and insurance Capital replacement Operating capital 2/	1989  Dol:  15.54  10.41  .54  .07  2.02  .10	15.9 10.7 .5 .0 2.0
otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/	1989  Dol:  15.54  10.41  .54  .07  2.02  .10  .37	15.9 10.7 .5 .0 2.0 .1
otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance  Capital replacement  Operating capital 2/  Other nonland capital 3/  Land 4/	1989  Dol:  15.54  10.41 .54 .07 2.02 .10 .37 .11	15.9 10.7 .5 .0 2.0 .1
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses General farm overhead  Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/ Unpaid labor (0.22 hr)	1989  Dol:  15.54  10.41  .54  .07  2.02  .10  .37  .11  1.20	15.9 10.7 .5 .0 2.0 .1 .3 .0
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital 2/ Other nonland capital 3/ Land 4/	1989  Dol:  15.54  10.41  .54  .07  2.02  .10  .37  .11  1.20	15.9 10.7 .5 .0 2.0

Table 15A--Upper Midwest milk production cash costs and returns, per cow, 1989-90

Cash receipts: Milk 1,99 Cattle 23	Doll 51.71 35.78 87.49	
Milk 1,99 Cattle 2: Total 2,10	51.71 35.78 87.49	2,005.29
Milk 1,99 Cattle 2.10 Total 2,10	35.78 87.49	
Total 2,10	87.49	257.21
10041		
Cash expenses:		
Feed		
00110011012000 (0) 137 237 27	04.43	555.80
2) 120 4000 (222 /	18.93 <b>70</b> .33	16.13 158.19
, (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	82.20	
21780 (14), 22 720,	21.47	16.73
Other		
11220 11442210 4114 1142110	64.37	70.90
MIDITION INSCRIPTION	19.63 35.24	20.77 36.87
Livestock hauling	5.84	6.12
	18.91	21.33
theoretical and account of the control of the contr	79.85	81.89
112244 2444	95.92	
	7.61 27.84	8.05 28.85
Dairy supplies Dairy assessment	0	.79
Miscellaneous	1.71	1.77
Total, variable cash expenses	54.28	1,292.22
• • • • • • • • • • • • • • • • • • • •	64.72	
	41.33 36.28	
	42.33	
Total, cash expenses 1,5	96.61	1,640.99
Cash receipts less cash expenses	90.88	621.51
Capital replacement 2	61.83	
Total, cash expenses and replacement 1,8	58.44	1,918.85
Net cash returns 3	29.05	343.65
Table 15BUpper Midwest milk production economic costs and returns, per	cow, 19	89-90
Item		1990
	Dol	lars
Total, cash receipts 2,1	87.49	2,262.50
=======================================		,
Economic (full ownership) costs:		
		1,292.22
	41 22	170. <b>7</b> 2 43.32
	61.83	
	12.61	12.07
		105.68
Land 4/	31.81 18.60	34.79
Unpaid labor (62.84 hrs) 3 Total, economic costs 2,1	18.60	351.90 2,288.56
Z, I	02.78	2,200.30
Residual returns to management and risk	4.71	
	4,565	14,854
See footnotes at end of Table 55B.		

Table 16A--Upper Midwest milk production cash costs and returns, per cwt, 1989-90

	1989	1990
Cash magainta.	<u>Dol</u>	lars
Cash receipts: Milk	12.40	10.50
Cattle	13.40 1.62	13.50 1.73
Total	15.02	15.23
Cash expenses:		
Feed		
Concentrates (58.1 lbs) 1/	3.46	3.74
Byproducts (1.5 lbs)	. 13	. 11
Hay (52 lbs)	1.17	1.06
Silage (128.8 lbs)	1.25	1.09
Pasture and other forage Other	. 15	. 11
Milk hauling and marketing Artificial insemination	. 44	. 48
Veterinary and medicine	.13	. 14
Livestock hauling	. 24	25
Fuel, lube, and electricity	.04	.04
Machinery and building repairs	. 13	. 14
Hired labor	. 66	. 55
DHIA fees	.05	. 71
Dairy supplies	.03	
Dairy assessment	0	.19
Miscellaneous	.01	.01
Total, variable cash expenses	8.60	8.68
	0.00	0.00
General farm overhead	1.13	1.15
Taxes and insurance	.28	.29
Interest	.94	.91
Total, fixed cash expenses	2.35	2.35
Total, cash expenses	10.95	11.03
Cash receipts less cash expenses	. 4.07	4.20
Capital replacement	1.80	1.87
Total, cash expenses and replacement	12.75	12.90
Net cash returns	2.27	2.33
Table 16BUpper Midwest milk production economic costs and	i returns, per cwt, 198	39-90
Item	1989	1990
Item Total, cash receipts	<u>Doll</u> 15.02	lars 15.23
Item  Total, cash receipts	<u>Doll</u> 15.02	ars
Item  Total, cash receipts  Economic (full ownership) costs:	<u>Doll</u> 15.02	Lars 15.23
Item  Fotal, cash receipts	Dol)	15.23
Item  Total, cash receipts  Economic (full ownership) costs:  Variable cash expenses	Doll 15.02 8.60	15.23 8.68
Item  Total, cash receipts	Dol) 15.02 8.60 1.13	15.23 
Item  Total, cash receipts  ===================================	8.60 1.13 .28	15.23 8.68 1.15
Item  Total, cash receipts  ===================================	8.60 1.13 .28 1.80	15.23 15.23 8.68 1.15 .29 1.87
Item  Total, cash receipts  ===================================	8.60 1.13 .28 1.80	15.23 8.68 1.15 .29 1.87
Item  Total, cash receipts ====================================	8.60 1.13 .28 1.80 .09	15.23 8.68 1.15 .29 1.87 .08
Item  Total, cash receipts  ===================================	8.60 1.13 .28 1.80 .09 .67	15.23 8.68 1.15 .29 1.87 .08 .71 .23 2.37

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Table 17A--U.S. fed cattle production cash costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
	D	ollars per co	 wt
Cash receipts:	-		<del></del>
Fed beef (100 lbs) 1/	70.53	73.76	78.77
Total	70.53	73.76	78.77
Cash expenses:			
Feeders			
Feeder cattle (58 lbs)	48.99	50.48	53.33
Feed			
Haylage (20 lbs)	.07	.05	.04
Silage (140 lbs)	1.18	.81	.74
Dry grain & concentrates (261 lbs)	11.05	11.81	11.68
Protein supplements (26 lbs)	2.97	3.04	2.88
Legume hay (60 lbs)	1.20	1.29	1.29
Other roughage (19.4 lbs)	0	0	0
Pasture	0	0	0
Crop residue	0	0	0
Total feed costs	16.47	17.00	16.63
Other			
Veterinary and medicine	, 58	. 62	.65
Livestock hauling	. 24	.25	.26
Marketing	.06	.06	.06
Bedding	.06	. 07	.07
Fuel, lube, and electricity	. 48	. 58	.64
Machinery and building repairs	. 59	.61	.61
Hired labor (0.15 hr)	.78	.81	.83
Miscellaneous	. 98	1.03	1.08
Manure credit	07	07	07
Total, variable cash expenses	69.16	71.44	74,09
General farm overhead	. 87	.91	. 95
Taxes and insurance	. 17	. 17	.17
Hired management	. 13	. 13	. 13
Interest	4,54	4.36	4,32
Total, fixed cash expenses	5.71	5.57	5.57
Total, cash expenses	74.87	77.01	79.66
Cash receipts less cash expenses	-4.34	-3.25	89
Capital replacement 2/	1.18	1.23	1.21
Total, cash expenses and replacement	76.05	78.24	80.87
Net cash returns	-5.52	-4.48	-2.10

Table 17B--U.S. fed cattle production economic costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
		Dollars per	
Total, cash receipts	70.53	73.76	78.77
Economic (full ownership) costs:			
Variable cash expenses	69.16	71.44	74.09
General farm overhead	. 87	. 91	.95
Taxes and insurance	.17	. 17	.17
Capital replacement	1.18	1.23	1.21
Hired management	. 13	. 13	.13
Operating capital 3/	. 97	1.16	1.12
Other nonland capital 4/	. 28	.31	.32
Land 5/	.05	.05	.06
Unpaid labor (0.11 hr)	. 57	. 63	. 58
Total, economic costs	73.38	76.03	78.63
Residual returns to management and risk	-2.85	-2.27	. 14

Table 18A--Fed cattle production cash costs and returns, commercial feedlots, all sizes of operation, 1988-90

Item	1988	1989	1990
Cash receipts:		Dollars per	<u>cwt</u>
Fed beef (100 lbs) 1/	70.65	73.88	78.90
Total	70.65	73.88	78.90
Feeders			
Feeder cattle (65 lbs)	50.89	52.46	55.29
Feed			
Silage (20 lbs)	.29	.21	. 23
Dry grain & concentrates (248 lbs)	11.01	11.77	11.64
Protein supplements (25 lbs)	2.86	2.91	2.76
Hay and other roughage	1.18	1.21	1.28
Total feed costs	15.34	16.10	15.91
Other			
Veterinary and medicine	. 55	.59	. 62
Fuel, lube, and electricity	.37	.42	.48
Machinery and building repairs	. 32	.34	.35
Hired labor (0.14 hr)	.81	. 83	. 86
Miscellaneous	1.30	1.37	1.42
Manure credit	07	07	07
Total, variable cash expenses	69.51	72.04	74.86
Taxes and insurance	.07	.07	.07
Hired management	. 15	. 16	. 16
Interest	3.62	3.48	3.45
Total, fixed cash expenses	3.84	3.71	3.68
Total, cash expenses	73.35	75.75	78.54
Cash receipts less cash expenses	-2.70	-1.87	.36
Capital replacement 2/	.49	. 51	. 52
Total, cash expenses and replacement	73.84	76.26	79.06
Net cash returns	-3.19	-2.38	16

Table 18A--Fed cattle production economic costs and returns, commercial feedlots, all sizes of operation, 1988-90

Item	1988	1989	1990
		Dollars per cv	<u>vt</u>
Total, cash receipts	70.65	73.88	78.90
Economic (full ownership) costs:			
Variable cash expenses	69.51	72.04	74.86
Taxes and insurance	. 07	.07	.07
Hired management	.15	. 16	. 16
Capital replacement	.49	. 51	. 52
Operating capital 3/	.97	1.16	1.12
Other nonland capital 4/	.13	.14	.15
Land 5/	.02	.02	.02
Unpaid labor	0	0	0
Total, economic costs	71.34	74.10	76.90
Residual returns to management and risk	69	22	2.00

Table 19A--Fed cattle production cash costs and returns, farmer feedlots, all sizes of operation, 1988-90

Item	1988	1989	1990
1	Dol	lars per cwt	
Cash receipts:			
Fed beef (100 lbs) 1/	<b>6</b> 9. <b>9</b> 3	73.11	78.07
Total	69.93	73.11	78.07 
Cash expenses:			
Feeders			
Feeder cattle (46 lbs)	39,19	40.39	42.56
Feed			
Haylage (60 lbs)	.40	.32	. 27
Silage (360 lbs)	5.74	3.87	3.53
Dry grain & concentrates (280 lbs)	11.25	12.04	11.90
Protein supplements (27 lbs)	3.54	3.74	3.54
Legume hay (68 lbs)	1.31	1.66	1.33
Pasture	.01	.01	.01
Crop residue	.00	.00	. 00
Total feed costs	22.25	21.64	20.58
Other			
Veterinary and medicine	.74	. 80	. 84
Livestock hauling	. 79	. 85	. 89
Marketing	. 36	. 38	. 40
Bedding	. 37	. 40	. 42
Fuel, lube, and electricity	1.02	1.36	1.54
Machinery and building repairs	1.94	2.01	2.05
Hired labor (0.11 hr)	.63	.69	. 68
Manure credit	08	08	08
Total, variable cash expenses	67.21	68.44	69.88
General farm overhead	2.93	3.08	3.19
Taxes and insurance	. 66	.66	. 67
Interest	7.49	7.20	7.13
Total, fixed cash expenses	11.08	10.94	10.99
Total, cash expenses	78.29	79.38	80.87
Cash receipts less cash expenses	-8.36	-6.27	-2.80
Capital replacement 2/	4.73	4.88	4.97
Total, cash expenses and replacement	83.02	84.26	85.84
Net cash returns	-13.09	-11.15	-7. <b>7</b> 7

Table 19B-- Fed cattle production economic costs and returns, farmer feedlots, all sizes of operation, 1988-90

Item		1989	1990
		Dollars per cw	<u>t</u>
Total, cash receipts	69.93	73.11	78.07
Terrerie / 6-11 erreries en entre		**********	
Economic (full ownership) costs:	67.01	60.77	60.00
Variable cash expenses General farm overhead	67.21 2.93		69.88 3.19
		3.08	
Taxes and insurance	.66	. 66	. 67
Capital replacement	4.73	4.88	4.97
Operating capital 3/	. 97	1.15	1.09
Other nonland capital 4/	1.07	1.17	1.27
Land 5/	. 19	. 23	. 25
Unpaid labor (0.65 hr)	3.52	3.86	3.77
Total, economic costs	81.28	83.47	85.09
Residual returns to management and risk	-11.35	-10.36	-7.02

Table 20A--U.S. cow-calf production cash costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
		ollars per o	
Cash receipts:			
Steer calves (1.127 cwt) 1/	106.29	109.95	116.19
Heifer calves (0.797 cwt)	68.24	70.06	73.61
Yearling steers (1.067 cwt)	88.81	93.41	98.56
Yearling heifers (0.765 cwt)	60.44	62.68	66.26
Cull cows (0.809 cwt)	35.91	36.05	40.17
Total	359.69	372.15	394.79
Cash expenses:			
Feed			
Grain (2.05 cwt)	9.49	9.85	9.22
Silage (0.29 ton)	7.00	4.66	4.88
Protein supplements (1.47 cwt)	18.64	20.30	19.19
Salt and minerals (0.33 cwt)	1.98	2.07	2.10
Hay (1.25 ton)	44.02	34.58	35.72
Pasture	34.89	39.62	36.79
Public grazing	.75	. 88	.91
Crop residue (purchased)	.08	.10	.09
Total feed costs	116.85	112.06	108.90
Other			
Veterinary and medicine	6.91	7.52	7.86
Livestock hauling	1.89	2.01	2.10
Marketing	4.54	4.98	5.15
Custom feed mixing	. 52	, 60	. 62
Fuel, lube, electricity	12.71	14.94	17.51
Machinery and building repairs	22.81	23.58	24.02
Hired labor (3.20 hrs)	15.06	17.40	18.10
Total, variable cash expenses	181.29		
General farm overhead	25.01	26.33	27.21
Taxes and insurance	30.05	30.08	30.43
Interest	49.88	47.98	47.50
Total, fixed cash expenses	104.94	104.39	
Total, cash expenses	286.23	287.48	289.40
Cash receipts less cash expenses	73.46	84.67	105.39
Capital replacement 2/	66.62	67.38	69.21
Total, cash expenses and replacement		354.86	
Net cash returns	6.84	17.29	36.18

Table 20B--U.S. cow-calf production economic costs and returns, all sizes of operation, 1988-90

Item		1989	1990
		Dollars per	<u>cow</u>
Total, cash receipts	359.69	372.15	394.79
Economic (full ownership) costs:			
Variable cash expenses	181.29	183.09	184.26
General farm overhead	25.01	26.33	27.2
Taxes and insurance	30.05	30.08	30.43
Capital replacement	66.62	67.38	69.2
Operating capital 3/	6.27	7.36	6.8
Other nonland capital 4/	29.93	31.95	36.1
Land 5/	74.35	82.19	87.0
Unpaid labor (27.58 hrs)	87.05	89.39	91.5
Total, economic costs	500.57	517.77	532.7
Residual returns to management and risk	-140.88	-145.62	-137.9

Table 21A--Cow-calf production cash costs and returns, operations with fewer than  $100\ \text{cows},\ 1988\text{--}90$ 

Item	1988	1989	1990
	Do	llars per co	<u>w</u>
Cash receipts:			_
Steer calves (1.244 cwt) 1/	117.96	122.86	129.94
Heifer calves (0.85 cwt)	72.62	75.56	79.48
Yearling steers (0.885 cwt)	74.10	76.87	81.05
Yearling heifers (0.722 cwt)	56.79	57.64	60.89
Cull cows (0.753 cwt)	33.62	32.79	36.51
Total	355.09	365.72	387.87
Cash expenses:			
Feed			
Grain (2.17 cwt)	9.82	10.45	9.84
Silage (0.27 ton)	6.73	4.24	4.45
Protein supplements (1.24 cwt)	15.87	17.07	16.13
Salt and minerals (0.33 cwt)	1.98	2.06	2.09
Hay (1.4 ton)	54.09	41.97	42.81
Pasture	28.69	33.71	31.19
Public grazing	.38	. 47	. 49
Total feed costs	117.56	109.97	107.00
Other	11,,00	200.00	20,.00
Veterinary and medicine	6.95	7.65	7.99
Livestock hauling	1.56	1.55	1.63
Marketing	5.12	5.89	6.11
Custom feed mixing	. 63	.80	. 83
Fuel, lube, electricity	15.32	18.66	21.92
Machinery and building repairs	27.51	29.19	29.73
Hired labor (1.39 hrs)	6.57	7.99	8.18
Total, variable cash expenses	181.22	181.70	183.39
Total, valiable cash expenses	101.22	101.70	100.00
General farm overhead	24.64	25.94	26.80
Taxes and insurance	32.20	31.37	31.48
Interest	49.14	47.27	46.80
Total, fixed cash expenses	105.98	104.58	105.08
Todal, Tixoa dadi. expended	100.00	10	103.00
Total, cash expenses	287.20	286.28	288.47
Cash receipts less cash expenses	67.89	79.44	99.40
Capital replacement	79.57	81.96	84.00
Total, cash expenses and replacement	366.77	368.24	372.47
Net cash returns	-11.68	-2.52	15.40

Table 21B--U.S. cow-calf production economic costs and returns, operations with fewer than 100 cows, 1988-90

Item		1989	1990
		Dollars per	ow
Total, cash receipts	355.09	365.72	387.87
Economic (full ownership) costs:			
Variable cash expenses	181.22	181.70	183.39
General farm overhead	24.64	25.94	26.80
Taxes and insurance	32.20	31.37	31.48
Capital replacement	79.57	81.96	84.00
Operating capital 3/	6.27	7.30	6.85
Other nonland capital 4/	33.46	35.90	40.39
Land 5/	75.98	84.95	89.28
Unpaid labor (37.73 hrs)	119.80	126.79	129.51
Total, economic costs	553.14	575.91	591.70
Residual returns to management and risk	-198.05	-210.19	-203.83

Table 22A--U.S. cow-calf production cash costs and returns, operations with 100-499 cows, 1988-90

Item	1988	1989	1990
		ollars per o	ow
Cash receipts:	_		
Steer calves (1.072 cwt) 1/	100.77	105.46	111.44
Heifer calves (0.79 cwt)	68.18	69.86	73.33
Yearling steers (1.198 cwt)	99.61	101.97	107.59
Yearling heifers (0.792 cwt)	63.08	65.30	69.08
Cull cows (0.877 cwt)	38.74	38.88	43.37
Total	370.38	381.47	404.81
Cash expenses:		=========	
Feed			
Grain (2.42 cwt)	11.36	11.49	10.69
Silage (0.39 ton	9.11	6.33	6.57
Protein supplements (1.83 cwt)	23.41	25.18	23.85
Salt and minerals (0.34 cwt)	1.96	2.05	2.08
Hay (1.24 ton)	36.10	29.92	31.53
Pasture	39.28	42.46	39.50
Public grazing	1.17	1.29	1.32
Crop residue	. 27	. 28	.28
Total feed costs	122.66	119.00	115.82
Other			
Veterinary and medicine	7.37	7.88	8.24
Livestock hauling	1.99	2.14	2.24
Marketing	4.15	4.35	4.50
Custom feed mixing	.52	. 53	. 56
Fuel, lube, electricity	11.30	13.10	15.33
Machinery and building repairs	18.97	19.54	19.88
Hired labor (4.39 hrs)	20,47	22.02	22.93
Total, variable cash expenses	187.43	188.56	189.50
General farm overhead	25.83	27.19	28.10
Taxes and insurance	30.43	31.55	32.08
Interest	51.51	49.55	49.06
Total, fixed cash expenses	107.77	108.29	109.24
Total, cash expenses	295.20	296.85	298.74
Cash receipts less cash expenses	75.18	84.62	106.07
Capital replacement 2/	55.52	56.33	57.94
Total, cash expenses and replacement	350.72	353.18	356.68
Net cash returns	19.66	28.29	48.13

Table 22B--U.S. cow-calf production economic costs and returns, operation with 100--499 cows, 1988--90

Item	1988	1989	1990
		Dollars per	cow
Total, cash receipts	370.38	381.47	404.81
Economic (full ownership) costs:			
Variable cash expenses	187.43	188.56	189.50
General farm overhead	25.83	27.19	28.10
Taxes and insurance	30.43	31.55	32.08
Capital replacement	55,52	56.33	57.94
Operating capital 3/	6.49	7.58	7.08
Other nonland capital 4/	26.76	28.68	32.52
Land 5/	81.79	89.63	95.52
Unpaid labor (20.54 hrs)	63.79	68.26	70.53
Total, economic costs	478.04	497.78	513.27
Residual returns to management and risk	-107.66	-116.31	-108.46

Table 23A--U.S. cow-calf production cash costs and returns, operations with  $500\ \mathrm{or\ more\ cows},\ 1988\text{--}90$ 

Item	1988	1989	1990
		ollars per c	:ow
Cash receipts:			
Steer calves (0.811 cwt) 1/	75.13	79.45	83.79
Heifer calves (0.615 cwt)	52.08	53.48	56.11
Yearling steers (1.451 cwt)	119.66	126.72	133.74
Yearling heifers (0.867 cwt)	68.30	72.95	77.14
Cull cows (0.866 cwt)	38.22	40.30	44.82
Total	353,39	372.90	395.60
Cash expenses:			
Feed			
Grain (0.79 cwt)	4.19	4.63	4.28
Silage (0.14 ton)	3.10	2.29	2.43
Protein supplements (1.54 cwt)	18.64	20.37	19.18
Salt and minerals (0.34 cwt)	2.01	2.16	2.19
Hay (0.69 ton)	24.15	21.50	22.70
Pasture	48.25	51.99	48.43
Public grazing	1.17	1.32	1.3
Total feed costs	101.51	104.26	100.56
Other			
Veterinary and medicine	5.77	6.38	6.64
Livestock hauling	2,92	3.15	3.30
Marketing	3.28	3.47	3.59
Custom feed mixing	.12	. 13	. 14
Fuel, lube, electricity	6.20	7.33	8.53
Machinery and building repairs	13.85	14.67	15.08
Hired labor (7.19 hrs)	34.34	36.53	38.28
Total, variable cash expenses	167.99	175.92	176.12
General farm overhead	24.66	25.96	26.82
Taxes and insurance	21.41	23.22	23.94
Interest	49,17	47.30	46.83
Total, fixed cash expenses	95.24	96.48	97 . <b>5</b> 9
Total, cash expenses	263.23	272.40	273.7
Cash receipts less cash expenses	90.16	100.50	121.89
Capital replacement 2/	43.03	45.31	47.13
Total, cash expenses and replacement	306.26	317.71	320.82
Net cash returns	47.13	55.19	74.78

Table 23B--U.S. cow-calf production economic costs and returns, operations with  $500\ \mathrm{or\ more\ cows}$  , 1988-90

Item		1989	1990
		Dollars per	cow
Total, cash receipts	3 <b>5</b> 3.39	372.90	39 <b>5</b> .60
Economic (full ownership) costs:			
Variable cash expenses	167.99	175.92	176.12
General farm overhead	24.66	25.96	26.82
Taxes and insurance	21.41	23.22	23.94
Capital replacement	43.03	45.31	47.11
Operating capital 3/	5.81	7.07	6.58
Other nonland capital 4/	23.78	26.52	30.34
Land 5/	52.11	58.18	62.84
Unpaid labor (5.74 hrs)	17.25	18.41	19.06
Total, economic costs	3 <b>5</b> 6.04	380. <b>5</b> 9	392.81
Residual returns to management and risk	-2.65	-7.69	2.79

Table 24A--Cow-calf production cash costs and returns, all sizes of operation, Great Plains, 1988-90

Item	1988	1989	1990
-4.	<u>D</u>	ollars per c	:ow
Cash receipts:			
Steer calves (1.045 cwt) 1/	98.68	103.30	109.36
Heifer calves (0.821 cwt)	72.38	73.87	77.67
Yearling steers (1.218 cwt)	105.03	109.49	115.30
Yearling heifers (0.845 cwt)	69.71	72.81	76.88
Cull cows (0.624 cwt)	26.81	27.89	31.12
Total	372.61	387.36	410.33
Cash expenses:			222202202
Feed			
Grain (1.86 cwt)	9.07	8.77	7.77
Silage (0.38 ton)	8.15	6,25	6.69
Protein supplements (2.28 cwt)	27.89	29.79	28.13
Salt and minerals (0.35 cwt)	1.96	2.07	2.10
Hay (1.09 ton)	33.27	27.34	29.47
Pasture	32.81	35.76	32.95
Public grazing	.94	.98	1.01
Crop residue	.21	.22	. 22
Total feed costs	114.30	111.18	108.34
Other			
Veterinary and medicine	6.88	7.45	7.79
Livestock hauling	1.67	1.81	1.89
Marketing	5,48	5.80	5.99
Custom feed mixing	.60	.64	. 66
Fuel, lube, electricity	13.08	15.46	17.88
Machinery and building repairs	20.86	21.86	22.26
Hired labor (3.03 hrs)	13.08	14.17	14.19
Total, variable cash expenses	175.95	178.37	179.00
General farm overhead	25.74	27.10	28.00
Taxes and insurance	25.52	26.87	27.20
Interest	51.33	49.38	48.89
Total, fixed cash expenses	102.59	103.35	104.09
Total cash expenses	278.54	281.72	283.09
Cash receipts less cash expenses	94.07	105.64	127,24
Capital replacement 2/	59.55	61.57	63.42
Total, cash expenses and replacement	338.09	343.29	346.51
Net cash returns	34.52	44.07	63.82

Table 24B--Cow-calf production economic costs and returns, all sizes of operation, Great Plains, 1988-90

Item	1988	1989	1990
	<u>I</u>	ollars per c	<u>ow</u>
Total, cash receipts	372.61	387.36	410.33
Economic (full ownership) costs:	escaes==================================		********
Variable cash expenses	175.95	178.37	179.00
General farm overhead	25.74	27.10	28.00
Taxes and insurance	25.52	26.87	27.20
Capital replacement	59.55	61.57	63.42
Operating capital 3/	6.09	7.17	6.69
Other nonland capital 4/	27.31	29.86	33.79
Land 5/	71.11	75.92	80.50
Unpaid labor (22.67 hrs)	74.75	79.92	80.49
Total, economic costs	466.02	486.78	499.09
Residual returns to management and risk	-93.41	-99.42	-88.76

Table 25A--Cow-calf production cash costs and returns, all sizes of operation, North-Central, 1988-90

Item	1988	1989	1990
	<u>D</u>	ollars per c	<u>ow</u>
Cash receipts:			
Steer calves (1.211 cwt) 1/	114.24	116.73	123.43
Heifer calves (0.74 cwt)	62.76	63.66	66.87
Yearling steers (0.96 cwt)	79.93	86.48	91.10
Yearling heifers (0.808 cwt)	62.01	64.43	67.97
Cull cows (0.999 cwt)	45.96	47.76	53.21
Total	364.90	379.06	402.58
Cash expenses:			
Feed			
Grain (2.42 cwt)	9.41	10.09	9.99
Silage (0.45 ton)	14.13	10.34	9.44
Protein supplements (1.02 cwt)	14.53	16.63	15.76
Salt and minerals (0.32 cwt)	2.02	2.10	2.13
Hay (1.46 ton)	67.66	53.27	47.05
Pasture	14.79	17.24	15.88
Total feed costs Other	122.54	109.67	100.25
Veterinary and medicine	6.62	7.44	7.78
Livestock hauling	2.07	2.11	2.21
Marketing	2.96	3.21	3.32
Custom feed mixing	.14	. 17	. 17
Fuel, lube, electricity	11.86	13.85	15.96
Machinery and building repairs	24.09	24.58	25.08
Hired labor (0.85 hr)	4.01	5.76	6.27
Total, variable cash expenses	174.29	166.79	161.04
General farm overhead	26.88	28.29	29.23
Taxes and insurance	47.53	54.78	54.38
Interest	53.59	51.55	51.04
	128.00	134.62	134.65
Total, fixed cash expenses	128.00	134.62	134.02
Total, cash expenses	302.29	301.41	295.69
Cash receipts less cash expenses	62.61	77.65	106.89
Capital replacement 2/	74.72	74.88	76.54
Total, cash expenses and replacement	377.01	376.29	372.23
Net cash returns	-12.11	2.77	30.35

Table 25B--Cow-calf production economic costs and returns, all sizes of operation, North-Central, 1988-90

Item	1988	1989	1990
		Dollars per	cow
Total, cash receipts	364.90	379.06	402.58
Economic (full ownership) costs:			
Variable cash expenses	174.29	166.79	161.04
General farm overhead	26.88	28.29	29.23
Taxes and insurance	47.53	54.78	54.38
Capital replacement	74.72	74.88	76.54
Operating capital 3/	6.03	6.70	6.01
Other nonland capital 4/	34.34	36.68	41.38
Land 5/	73.30	90.92	94.21
Unpaid labor (34.8 hrs)	110.62	112.46	109.74
Total, economic costs	547.71	571.50	572.53
Residual returns to management and risk	-182.81	-192.44	-169.95

Table 26A--Cow-calf production cash costs and returns, all sizes of operation, South, 1988-90

Item	1988	1989	1990
	r r	ollars per d	ow
Cash receipts:	•		<del></del>
Steer calves (1.341 cwt) 1/	127.55	133.17	140.97
Heifer calves (0.91 cwt)	73.59	74.94	78.91
Yearling steers (0.543 cwt)	41.52	42.73	45.10
Yearling heifers (0.408 cwt)	28.53	29.50	31.26
Cull cows (0.875 cwt)	40.21	41.35	46.06
Total	311.40	321.69	342.30
Cash expenses:			
Feed			
Grain (2.43 cwt)	11.42	12.25	12.13
Silage (0.22 ton)	4.50	3.34	3.67
Protein supplements (0.76 cwt)	10.31	10.85	10.14
Salt and minerals (0.27 cwt)	1.94	2.02	2.05
Hay (1.23 ton)	47.90	39.05	39.19
Pasture	53.97	56.23	51.72
Total feed costs	130.04	123.74	118.90
Other			
Veterinary and medicine	6.48	6.96	7.24
Livestock hauling	1.02	1.09	1.15
Marketing	4.14	4.37	4.51
Custom feed mixing	1.32	1.42	1.49
Fuel, lube, electricity	13.69	15.95	18.56
Machinery and building repairs	27.03	28.01	28.61
Hired labor (3.31 hrs)	17.46	18.14	18.92
Total, variable cash expenses	201.18	199.68	199.38
General farm overhead	21.32	22.44	23.19
Taxes and insurance	27.90	29.75	29.18
Interest	42.51	40.89	40.49
Total, fixed cash expenses	91.73	93.08	92.86
Total, cash expenses	292.91	292.76	292.24
Cash receipts less cash expenses	18.49	28.93	50.06
Capital replacement 2/	83.03	85.36	87.37
Total, cash expenses and replacement	375.94	378.12	379.61
Net cash returns	-64.54	-56.43	-37.31
*-,			

Table 26B--Cow-calf production economic costs and returns, all sizes of operation, South, 1988-90

Item	1988	1989	1990
		Dollars per	<u>oow</u>
Total, cash receipts	311.40	321.69	342.30
Economic (full ownership) costs:			
Variable cash expenses	201.18	199.68	199.38
General farm overhead	21.32	22.44	23.19
Taxes and insurance	27.90	29.75	29.18
Capital replacement	83.03	85.36	87.37
Operating capital 3/	6.96	8.03	7.45
Other nonland capital 4/	35.06	38.03	42.91
Land 5/	105.43	118.32	122.75
Unpaid labor (33.03 hrs)	95.46	100.04	104.99
Total, economic costs	576.34	601.65	617.22
Residual returns to management and risk	-264.94	-279.96	-274.92

Table 27A--Cow-calf production cash costs and returns, all sizes of operation, West, 1988-90

Item	1988	1989	1990
	Dollars per cow	<u>w</u>	
Cash receipts:			
Steer calves (1.021 cwt) 1/	95.24	99.49	104.93
Heifer calves (0.704 cwt)	60.73	61.80	64.77
Yearling steers (1.335 cwt)	108.06	111.32	117.20
Yearling heifers (0.902 cwt)	70.71	73.15	77.06
Cull cows (0.925 cwt)	40.26	41.38	46.10
Total	375.00	387.14	410.06
Cash expenses:			=======
Feed			
Grain (1.77 cwt)	8.62	9.53	8.96
Silage (0.09 ton)	1.97	1.46	1.55
Protein supplements (1.03 cwt)	13.11	13.85	13.14
Salt and minerals (0.36 cwt)	2.02	2.11	2.14
Hay (1.36 ton)	41.55	37.00	39.62
Pasture	36.91	38.89	37.09
Public grazing	1.60	1.71	1.74
Total feed costs	105.78	104.55	104.24
Other			
Veterinary and medicine	7.55	8.13	8.48
Livestock hauling	2.87	3.06	3.20
Marketing	4.45	4.69	4.86
Fuel, lube, electricity	11.89	13.59	16.53
Machinery and building repairs	21.60	22.40	22.83
Hired labor (5.06 hrs)	24.45	25.51	27.28
Total, variable cash expenses	178.59	181.93	187.42
General farm overhead	26.49	27.88	28.81
Taxes and insurance	26.71	28.14	29.50
Interest	52.81	50.80	50.30
Total, fixed cash expenses	106.01	106.82	108.61
Total, cash expenses	284.60	288.75	296.03
Cash receipts less cash expenses	90.40	98.39	114.03
Capital replacement 2/	58.69	59.67	61.62
Total, cash expenses and replacement	343.29	348.42	357.65
Net cash returns	31.71	38.72	52.41

Table 27B--Cow-calf production economic costs and returns, all sizes of operation, West, 1988-90

Item	1988	1989	1990	
	<u>Do</u>	Dollars per cow		
Total, cash receipts	375.00	387.14	410.06	
Economic (full ownership) costs:	*************			
Variable cash expenses	178.59	181.93	187.42	
General farm overhead	26.49	27.88	28.81	
Taxes and insurance	26.71	28.14	29.50	
Capital replacement	58.69	59.67	61.62	
Operating capital 3/	6.18	7,31	7.00	
Other nonland capital 4/	26.75	28.69	32.76	
Land 5/	54.21	59.88	66.46	
Unpaid labor (25.8 hrs)	83.41	88.99	93.13	
Total, economic costs	461.03	482.69	506.70	
Residual returns to management and risk	-86.03	-95.55	-96.64	

Table 28A--U.S. farrow-to-finish production cash costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
	Dollars per cwt		
Cash receipts:			
Slaughter hogs (94.4 lbs) 1/	40.70	41.31	51.09
Cull sows (5.6 lbs) Total	1.79	1.95	2.57
	42.49	43.26 ======	53,66
Cash expenses:			
Feed			
Grain (348.2 lbs)	14.09	15.15	14.98
Protein supplements (81.2 lbs)	12.87	12.91	11.22
Pasture	.04	.03	.03
Total feed costs	27.00	28,09	26.23
Other			
Veterinary and medicine	. 57	.61	. 64
Livestock hauling	. 13	. 13	. 14
Marketing	. 38	. 40	. 41
Bedding (12 lbs)	.15	. 16	. 17
Custom feed mixing	.00	.00	.00
Fuel, lube, and electricity	1.66	1.96	2.23
Machinery and building repairs	2.41	2.50	2.58
Hired labor (0.19 hr)	1.37	1.47	1.46
Manure credit	19	20	19
Total, variable cash expenses	33.48	35.12	33.67
General farm overhead	1.96	2.06	2.13
Taxes and insurance	. 73	. 74	. 76
Interest	4.99	4.80	4.75
Total, fixed cash expenses	7.68	7.60	7.64
Total, cash expenses	41.16	42.72	41.31
Cash receipts less cash expenses	1.33	.54	12.35
Capital replacement 2/	5.55	5.74	6.03
Total, cash expenses and replacement	46.71	48.46	47.34
Net cash returns	-4.22	-5.20	6.32

Table 28B--U.S. farrow-to-finish production economic costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
	<u>Do</u>	llars per cw	<u>t</u>
Total, cash receipts	42.49	43.26	53.66
Economic (full ownership) costs:			
Variable cash expenses	33.48	35.12	33.67
General farm overhead	1.96	2.06	2.13
Taxes and insurance	. 73	.74	. 76
Capital replacement	<b>5</b> .55	5.74	6.03
Operating capital 3/	. 58	.71	. 63
Other nonland capital 4/	1.29	1.41	1.58
Land 5/	. 07	.09	.08
Unpaid labor (0.91 hr)	4.64	5.05	4.95
Total, economic costs	48.30	50.92	49.83
Residual returns to management and risk	-5.81	-7.66	3.83

Table 29A--U.S. farrow-to-finish production cash costs and returns, 140-head operation, 1988-90

Item	1988	1989	1990
	<u>Dol</u>		
Cash receipts: Slaughter hogs (94.7 lbs) 1/	40.57	41.21	50.98
Cull sows (5.3 lbs)	1.68	1.82	2.40
Total	42.25	43.03	53.38
Cash expenses:			
Feed			
Grain (354.5 lbs)	14.65	15.83	15.67
Protein supplements (80.4 lbs)	13.82	13.80	11.93
Pasture	.19	. 16	. 16
Total feed costs	28.66	29.79	27.76
Other			
Veterinary and medicine	. 63	. 68	.71
Livestock hauling	. 15	. 15	. 16
Marketing	.60	.65	. 67
Bedding (16 lbs)	. 19	. 20	.21
Custom feed mixing	.00	. 00	.00
Fuel, lube, and electricity	1.85	2.23	2.57
Machinery and building repairs	2.86	2.96	3.14
Hired labor (0.12 hr)	. 56	. 63	.65
Manure credit	15	15	14
Total, variable cash expenses	35.35	37.14	35.73
General farm overhead	1.96	2.07	2.14
Taxes and insurance	.91	.92	. 94
Interest	5.00	4.81	4.76
Total, fixed cash expenses	7.87	7.80	7.84
Total, cash expenses	43.22	44.94	43.57
Cash receipts less cash expenses	97	-1.91	9.81
Capital replacement 2/	6.88	7.04	7.43
Value of production less cash expenses	50.10	51.98	51.00
Net cash returns	-7.85	-8.95	2.38

Table 29B--U.S. farrow-to-finish production economic costs and returns, 140-head operation, 1988-90

Item	1988	1989	1990
	<u>Do</u>	llars per cw	<u>t</u>
Total, cash receipts	42.25	43.03	53.38
Economic (full ownership) costs:			
Variable cash expenses	35.35	37.14	35.73
General farm overhead	1.96	2.07	2.14
Taxes and insurance	. 91	. 92	. 94
Capital replacement	6.88	7.04	7.43
Operating capital 3/	.61	.75	. 67
Other nonland capital 4/	1.60	1.74	1.98
Land 5/	.34	. 41	.41
Unpaid labor (2.23 hrs)	10.17	10.91	10.74
Total, economic costs	57.82	60.98	60.04
Residual returns to management and risk	-15.57	-17.95	-6.66

Table 30A--U.S. farrow-to-finish production cash costs and returns, 300-head operation, 1988-90

Item	1988	1989	1990
	Dollars per cwt		
Cash receipts:			
Slaughter hogs (94 lbs) 1/	40.73	41.34	51.13
Cull sows (6 lbs)	1.91	2.07	2.73
Total	42.64	43.41	53.86
Cash expenses:			
Feed			
Grain (353.7 lbs)	14.22	15.31	15.14
Protein supplements (80.4 lbs)	13.83	13.81	11.94
Pasture	. 09	.08	.07
Total feed costs	28.14	29.20	27.15
Other			
Veterinary and medicine	. 73	.78	.82
Livestock hauling	. 21	. 21	. 22
Marketing	.45	. 48	. 50
Bedding (22 lbs)	.24	. 26	.27
Custom feed mixing	.00	. 00	.00
Fuel, lube, and electricity	1.49	1.86	2.12
Machinery and building repairs	2.58	2.66	2.75
Hired labor (0.09 hr)	.44	. 47	. 46
Manure credit	17	18	17
Total, variable cash expenses	34.11	35.74	34.12
General farm overhead	1.98	2.08	2.15
Taxes and insurance	.78	.79	. 81
Interest	5.04	4.85	4.80
Total, fixed cash expenses	7.80	7.72	7.76
Total, cash expenses	41.91	43.46	41.88
Cash receipts less cash expenses	. 73	05	11.98
Capital replacement 2/	6.65	6.83	7.16
Total, cash expenses and replacement	48.56	50.29	49.04
Net cash returns	-5.92	-6.88	4.82

Table 30B--U.S. farrow-to-finish production economic costs and returns, 300-head operation, 1988-90

Item	1988	1989	1990
		Dollars per co	<u>wt</u>
Total, cash receipts	42.64	43.41	53.86
Economic (full ownership) costs:			
Variable cash expenses	34.11	35.74	34.12
General farm overhead	1.98	2.08	2.15
Taxes and insurance	. 78	. 79	.81
Capital replacement	6.65	6.83	7.16
Operating capital 3/	. 59	.72	.64
Other nonland capital 4/	1.48	1.61	1.80
Land 5/	.16	. 20	.19
Unpaid labor (1.58 hrs)	7.19	7.82	7.68
Total, economic costs	52.94	55.79	54.55
Residual returns to management and risk	-10.30	-12.38	69

Table 31A--U.S. farrow-to-finish production cash costs and returns, 650-head operation, 1988-90

Item	1988	1989	1990
	Dollars per cwt	 <u>t</u>	
Cash receipts:			
Slaughter hogs (94.2 lbs) 1/	40.61	41.21	50.97
Cull sows (5.8 lbs)	1.85	2.02	2.66
Total	42.46	43.23	53.63
Cash expenses:			
Feed			
Grain (353.2 lbs)	14.15	15.19	15.01
Protein supplements (80.7 lbs)	13.72	13.72	11.86
Pasture	.06	.05	. 04
Total feed costs	27.93	28.96	26.91
Other			
Veterinary and medicine	. 80	. 86	. 89
Livestock hauling	. 13	. 14	. 15
Marketing	. 44	.46	48
Bedding (18 lbs)	.21	.23	. 24
Custom feed mixing	.00	.00	.00
Fuel, lube, and electricity	1.77	2.15	2.45
Machinery and building repairs	2.45	2.54	2.61
Hired labor (0.12 hr)	. 57	. 62	.62
Manure credit	18	19	18
Total, variable cash expenses	34.12	35.77	34.17
General farm overhead	1.95	2.05	2.12
Taxes and insurance	.72	.72	.74
Interest	4.96	4.78	4.73
Total, fixed cash expenses	7.63	7.55	7.59
Total, cash expenses	41.75	43.32	41.76
Cash receipts less cash expenses	.71	09	11.87
Capital replacement 2/	5.83	. 6.05	6.34
Total, cash expenses and replacement	47.58	49.37	48.10
Net cash returns	-5.12	-6.14	5.53

Table 31B--U.S. farrow-to-finish production economic costs and returns, 650-head operation, 1988-90

Item	1988	1989	1990
	<u>Do</u>	llars per cw	<u>L</u>
Total, cash receipts	42.46	43.23	53.63
Economic (full ownership) costs:		*****	
Variable cash expenses	34.12	35.77	34.17
General farm overhead	1.95	2.05	2.12
Taxes and insurance	.72	. 72	
Capital replacement	5.83	6.05	6.34
Operating capital 3/	. 59	.72	.64
Other nonland capital 4/	1.29	1.41	1.58
Land 5/	.10	. 12	.11
Unpaid labor (1.02 hrs)	4.60	5.01	4.92
Total, economic costs	49.20	51.85	50.62
Residual returns to management and risk	-6.74	-8.62	3.01

Table 32A--U.S. farrow-to-finish production cash costs and returns, 1,600-head operation, 1988-90

Item	1988	1989	1990
		llars per cw	- <b></b> t
Cash receipts:			
Slaughter hogs (94.4 lbs) 1/	40.69	41.30	51.07
Cull sows (5.6 lbs)	1.80	1.96	2.58
Total	42.49	43.26	53.65
Cash expenses:			
Feed			
Grain (345.8 lbs)	13.89	14.91	14.74
Protein supplements (85 lbs)	14.01	14.02	11.99
Pasture	.01	.00	.01
Total feed costs	27.91	28.93	26.74
Other			
Veterinary and medicine	.32	.35	. 37
Livestock hauling	.11	. 12	. 13
Marketing	.41	. 43	. 44
Bedding (12 lbs)	.16	. 17	. 18
Custom feed mixing	0	0	0
Fuel, lube, and electricity	1.50	1.79	2.04
Machinery and building repairs	2.49	2.57	2.64
Hired labor (0.23 hr)	1.46	1.59	1.58
Manure credit	18	18	17
Total, variable cash expenses	34.18	35.77	33.95
General farm overhead	1.95	2.05	2.12
Taxes and insurance	.80	.81	. 84
Interest	4.96	4.78	4.73
Total, fixed cash expenses	7.71	7.64	7.69
Total, cash expenses	41.89	43.41	41.64
Cash receipts less cash expenses	.60	15	12.01
Capital replacement 2/	5.68	5.86	6.14
Total, cash expenses and replacement	47.57	49.27	47.78
Net cash returns	-5.08	-6.01	5.87

Table 32B--U.S. farrow-to-finish production economic costs and returns, 1,600-head operation, 1988-90

Item	1988	1989	1990
	Doll.	ars per cwt	
Total, cash receipts	42.49	43.26	53.65
Economic (full ownership) costs:			
Variable cash expenses	34.18	35.77	33.95
General farm overhead	1.95	2.05	2.12
Taxes and insurance	.80	.81	.84
Capital replacement	5.68	5.86	6.14
Operating capital 3/	. 59	.72	. 63
Other nonland capital 4/	1.38	1.50	1.68
Land 5/	.01	.02	.02
Unpaid labor (0.74 hr)	4.54	4.94	4.85
Total, economic costs	49.13	51.67	50.23
Residual returns to management and risk	-6.64	-8.41	3.42

Table 33A--U.S. farrow-to-finish production cash costs and returns, 3,000-head operation, 1988-90

Item	1988	1989	1990
	Do	llars per cw	<u>t</u>
Cash receipts:	40.70	41.00	61.1
Slaughter hogs (94.6 lbs) 1/ Cull sows (5.4 lbs)	40.78 1.72	41.39 1.87	51.1 2.4
Total	42.50	43.26	53.6
		*******	
Cash expenses:			
Feed	14.16	15.21	15.0
Grain (348.1 lbs) Protein supplements (79.9 lbs)	11.18	11.31	10.0
Pasture	0	0	0
Total feed costs	25.34	26.52	25.1
Other			
Veterinary and medicine	.40	. 43	. 4
Livestock hauling	.07	.07	. 0
Marketing	.24	.26	. 2
Bedding (4 lbs)	.05	.05	. 0
Custom feed mixing	0	0	0
Fuel, lube, and electricity	1.61	1.84	2.1
Machinery and building repairs	2.40	2.49	2.5
Hired labor (0.23 hr)	1.95	2.12	2.1
Manure credit	16	17	1
Total, variable cash expenses	31.90	33.61	32.6
General farm overhead	1.95	2.06	2.1
Taxes and insurance	.66	.67	. 7
Interest	4.97	4.78	4.7
Total, fixed cash expenses	7.58	7.51	7.5
Total, cash expenses	39.48	41.12	40.2
Cash receipts less cash expenses	3.02	2.14	13.4
Capital replacement 2/	4.86	5.04	5.3
Total, cash expenses and replacement	44.34	46.16	45.5
Net cash returns	-1.84	-2.90	8.1
Table 33BU.S. farrow-to-finish production econ operation, 1988-90	nomic costs and r	eturns, 3,00	0-head
Item	1988		1990
	<u>Doll</u>	ars per cwt	
			53.6
	42.50	43.26	
Economic (full ownership) costs:			
Economic (full ownership) costs:  Variable cash expenses	31.90	33.61	32.6
Economic (full ownership) costs:  Variable cash expenses  General farm overhead	31.90 1.95	33.61	32.6 2.1
Economic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance	31.90 1.95 .66	33.61 2.06 .67	32.6 2.1 .7
Economic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance  Capital replacement	31.90 1.95	33.61	32.6 2.1 .7 5.3
Economic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance	31.90 1.95 .66 4.86	33.61 2.06 .67 5.04	32.6 2.1 .7 5.3
Economic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance  Capital replacement  Operating capital 3/	31.90 1.95 .66 4.86 .55	33.61 2.06 .67 5.04 .68	32.6 2.1 .7 5.3 .6
Economic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance  Capital replacement  Operating capital 3/  Other nonland capital 4/	31.90 1.95 .66 4.86 .55 1.15	33.61 2.06 .67 5.04 .68 1.26	32.6 2.1 .7 5.3 .6 1.4
General farm overhead Taxes and insurance Capital replacement Operating capital 3/ Other nonland capital 4/ Land 5/	31.90 1.95 .66 4.86 .55 1.15	33.61 2.06 .67 5.04 .68 1.26	32.6 2.1 .7 5.3 .6 1.4 .0
Economic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance  Capital replacement  Operating capital 3/  Other nonland capital 4/  Land 5/  Unpaid labor (0.43 hr)	31.90 1.95 .66 4.86 .55 1.15 .01 3.69	33.61 2.06 .67 5.04 .68 1.26 .01 4.01	32.6

Table 34A--U.S. farrow-to-finish production cash costs and returns, 10,000-head operation, 1988-90

Item	1988	1989	1990
	<u>D</u>	ollars per c	wt
Cash receipts:		· <del>- · · ·</del>	
Slaughter hogs (94.7 lbs) 1/	40.78	41.39	51.20
Cull sows (5.3 lbs) Total	1.71	1.85	2.44
TOTAL	42.49	43.24	53.64
Cash expenses:			
Feed			
Grain (336.5 lbs)	13.90	14.93	14.78
Protein supplements (77.8 lbs)	10.46	10.58	9.42
Pasture	0	0	0
Total feed costs	24.36	25.51	24.20
Other			
Veterinary and medicine	.69	.75	.79
Livestock hauling	.13	. 14	.15
Marketing	.24	.26	.27
Bedding (2 lbs)	.04	.04	.04
Custom feed mixing	0	0	0
Fuel, lube, and electricity	1.90	2.12	2.40
Machinery and building repairs	1.87	1.93	2.00
Hired labor (0.33 hr)	2.92	3.15	3.02
Manure credit	32	33	31
Total, variable cash expenses	31.83	33.57	32.56
General farm overhead	1.95	2.06	2.13
Taxes and insurance	. 59	. 60	. 63
Interest	4.97	4.78	4.73
Total, fixed cash expenses	7.51	7.44	7.49
Total, cash expenses	39.34	41.01	40.05
Cash receipts less cash expenses	3.15	2.23	13.59
Capital replacement 2/	4.15	4.30	4.58
Total, cash expenses and replacement	43.49	45.31	44.63
Net cash returns	-1.00	-2.07	9.01

Table 34B--U.S. farrow-to-finish production economic costs and returns, 10,000-head operation, 1988-90

Item	1988	1989	1990	
	<u>Dol</u>	Dollars per cwt		
Total, cash receipts		43.24	53.64	
Economic (full ownership) costs:			=======	
Variable cash expenses	31.83	33.57	32.56	
General farm overhead	1.95	2.06	2.13	
Taxes and insurance	. 59	.60	. 63	
Capital replacement	4.15	4.30	4.58	
Operating capital 3/	. 55	. 68	. 61	
Other nonland capital 4/	1.00	1.09	1.24	
Land 5/	.00	.01	.00	
Unpaid labor (0.13 hr)	1.12	1.21	1.18	
Total, economic costs	41.19	43.52	42.93	
Residual returns to management and risk	1.30	-0.28	10.71	

Table 35A--Farrow-to-finish production cash costs and returns, all sizes of operation, North-Central, 1988-90

Item	1988	1989	1990
	De	<u>wt</u>	
Gross value of production:			
Slaughter hogs (94.2 lbs) 1/	40.62	41.22	50.98
Cull sows (5.8 lbs)	1.87	2.04	2.70
Total	42.49	43.26	53.68 =======
Cash expenses:			
Feed			
Grain (348.5 lbs)	13.75	14.75	14.57
Protein supplements (80.8 lbs)	12.74	12.78	11.13
Pasture	.03	. 02	.02
Total feed costs	26.52	27.55	25.72
Other			
Veterinary and medicine	. 55	. 60	.62
Livestock hauling	. 14	.15	.15
Marketing	.38	.40	.41
Bedding (14 lbs)	.16	.18	.19
Custom feed mixing	0	0	0
Fuel, lube, and electricity	1.62	1.93	2.18
Machinery and building repairs	2.46	2.55	2.60
Hired labor (0.18 hr)	1.28	1.38	1.35
Manure credit	22	23	22
Total, variable cash expenses	32.89	34.51	33.00
General farm overhead	1.96	2.06	2.13
Taxes and insurance	.74	.74	. 76
Interest	4.98	4.79	4.74
Total, fixed cash expenses	7.68	7.59	7.63
Total, cash expenses	40.57	42.10	40.63
Cash receipts less cash expenses	1.92	1.16	13.05
Capital replacement 2/	5.69	5.89	6.15
Total, cash expenses and replacement	46.26	47.99	46.78
Net cash returns	-3.77	-4.73	6.90

Table 35B--Farrow-to-finish production economic costs and returns, all sizes of operation, North-Central, 1988-90

Item	1988	1989	1990	
	Dol.	Dollars per cwt		
Total, cash receipts	42.49	43.26	53.68	
Economic (full ownership) costs:				
Variable cash expenses	32.89	34.51	33.00	
General farm overhead	1.96	2.06	2.13	
Taxes and insurance	.74	.74	.76	
Capital replacement	5.69	5.89	6.15	
Operating capital 3/	. 57	.69	. 62	
Other nonland capital 4/	1.32	1.44	1.60	
Land 5/	.06	.07	.07	
Unpaid labor (0.92 hr)	4.72	5.16	5.04	
Total, economic costs	47.95	50.56	49.37	
Residual returns to management and risk	-5.46	-7.30	4.31	

Table 36A--Farrow-to-finish production cash costs and returns, all sizes of operation, Southeast, 1988-90

Item	1988	1989	1990
		Dollars per cw	<u>t</u>
Cash receipts:			
Slaughter hogs (95.9 lbs) 1/	41.23	41.84	51.74
Cull sows (4.1 lbs) Total	1.26	1.37	1.82
10041	42.49	43.21	53.56
Cash expenses:			
Feed			
Grain (346 lbs)	16,31	17.50	17.26
Protein supplements (83.6 lbs)	13.71	• •	11.77
Pasture	.11	.09	.09
Total feed costs	30.13	31.32	29.12
Other			
Veterinary and medicine	.66	. 70	. 73
Livestock hauling	.06	.06	.07
Marketing	.39	. 41	. 43
Bedding (4 lbs)	.05	.05	.05
Custom feed mixing	0	0	ò
Fuel, lube, and electricity	1.95	2.17	2.52
Machinery and building repairs	2.09	2.18	2.24
Hired labor (0.3 hr)	1.94	2.02	2.08
Manure credit	0	0	0
Total, variable cash expenses	37.27	38.91	37.24
General farm overhead	1.98	2.08	2.15
Taxes and insurance	.71	. 72	.77
Interest	5.03	4.84	4.79
Total, fixed cash expenses	7.72	7.64	7.71
Total, cash expenses	44.99	46.55	44.95
Cash receipts less cash expenses	-2.50	-3.34	8.61
Capital replacement 2/	4.66	4.84	5.42
Total, cash expenses and replacement	49.65	. 51.39	50.37
Net cash returns	-7.16	-8.18	3.19

Table 36B--Farrow-to-finish production economic costs and returns, all sizes of operation, Southeast, 1988-90

Item	1988	1989	1990
		Dollars per cv	<u>vt</u>
Total, cash receipts	42.49	43.21	53.56
Economic (full ownership) costs:			
Variable cash expenses	37,27	38.91	37.24
General farm overhead	1.98	2.08	2.15
Taxes and insurance	.71	.72	.77
Capital replacement	4.66	4.84	5.42
Operating capital 3/	.64	.78	.70
Other nonland capital 4/	1.11	1.22	1.46
Land 5/	.16	.18	.18
Unpaid labor (0.84 hr)	4.13	4.35	4.46
Total, economic costs	50.66	53.08	52.38
Residual returns to management and risk	-8.17	-9.87	1.18

Table 37A--U.S. feeder pig production cash costs and returns, all sizes of operation, 1988-90

Item		1989	1990
		ollars per co	<u>wt</u>
Cash receipts:			
Feeder pigs (81.1 lbs) 1/		56.90	
Cull sows (18.9 lbs)	6.08	6.58	8.68
Total	66.71	63.48	95.87
Cash expenses:			
Feed			
Grain (427.7 lbs)	17.46	18.75	18.51
Protein supplements (117.2 lbs)	20.63	20.65	17.81
Pasture	.17	.15	.14
Total feed costs	38.26	39.55	36.46
Other			
Veterinary and medicine	1.50	1.62	1.69
Livestock hauling	. 19	. 21	.21
Marketing	1.76	1.89	1.96
Bedding (32 lbs)	.37	.41	.42
Custom feed mixing	1.18	1.23	1.30
Fuel, lube, and electricity	6.33	7.35	8.32
Machinery and building repairs	4.85	5.06	5.29
Hired labor (0.44 hr)	3.38	3.59	3.65
Manure credit	15	15	14
Total, variable cash expenses	57.67	60.76	59.16
General farm overhead	2.76	2.90	3.00
Taxes and insurance	1.82	1.87	1.94
Interest	7,35	7.07	7.00
Total, fixed cash expenses	11.93	11.84	11.94
Total, cash expenses	69.60	72.60	71.10
Cash receipts less cash expenses	-2.89	-9.12	24.77
Capital replacement 2/	11.50	12.00	12.82
Total, cash expenses and replacement	81.10	84.60	83.92
Net cash receipts	-14.39	-21.12	11.95

Table 37B--U.S. feeder pig production economic costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
	<u> </u>	ollars per c	wt
Total, cash receipts	66.71	63.48	95.87
Tanania (full amanakia) asaka			
Economic (full ownership) costs:	57.67	60.76	50 16
Variable cash expenses General farm overhead			59.16
	2.76	2.90	3.00
Taxes and insurance	1.82	1.87	1.94
Capital replacement	11.50	12.00	12.82
Operating capital 3/	1.00	1.22	1.11
Other nonland capital 4/	2.89	3.19	3.68
Land 5/	.36	. 44	. 43
Unpaid labor (3.47 hrs)	17.76	19.34	19.08
Total, economic costs	95.76	101.72	101.22
Residual returns to management and risk	-29.05	-38.24	-5.35

Table 38A--U.S. feeder pig production cash costs and returns, 140-head operation, 1988-90

Item	1988	1989	1990
		ollars per c	 wt
Cash receipts:	_		
Feeder pigs (80.4 lbs) 1/	58.33	55.19	84.77
Cull sows (19.6 lbs)	6.28	6.66	8.74
Total	64.61	61.85	93.51
Cash expenses:			
Feed			
Grain (469 lbs)	19.65	21.15	20.90
Protein supplements (119.7 lbs)	20.57	20.42	17.61
Pasture	. 67	. 62	.64
Total feed costs	40.89	42.19	39.15
Other			
Veterinary and medicine	3.03	3.18	3.29
Livestock hauling	.00	.00	.00
Marketing	1.87	2.09	2.20
Bedding (32 lbs)	.38	. 42	. 45
Custom feed mixing	5.94	6.55	6.89
Fuel, lube, and electricity	5.85	7.34	8.43
Machinery and building repairs	6.08	6.35	6.76
Hired labor (0.13 hr)	. 58	.69	.74
Manure credit	0	0	0
Total, variable cash expenses	64.62	68.81	67.91
General farm overhead	2.63	2.77	2.87
Taxes and insurance	1.98	1.99	2.06
Interest	7.02	6.75	6.68
Total, fixed cash expenses	11.63	11.51	11.61
Total, cash expenses	· 76.25	80.32	79.52
Cash receipts less cash expenses	-11.64	-18.47	13.99
Capital replacement 2/	13.09	13.66	14.72
Total, cash expenses and replacement	89.34	93.98	94.24
Net cash receipts	-24.73	-32.13	73

Table 38B--U.S. feeder pig production economic costs and returns, 140-head operation, 1988-90

Item	1988	1989	1990
		Dollars per c	<u>wt</u>
Total, cash receipts	64.61	61.85	93.51
Economic (full ownership) costs:		========	
Variable cash expenses	64.62	68.81	67.91
General farm overhead	2.63	2.77	2.87
Taxes and insurance	1.98	1.99	2.06
Capital replacement	13.09	13.66	14.72
Operating capital 3/	1.12	1.38	1.27
Other nonland capital 4/	3.27	3.63	4.21
Land 5/	.70	.88	.88
Unpaid labor (7.64 hrs)	35.47	38.35	38.47
Total, economic costs	122.88	131.47	132.39
Residual returns to management and risk	-58.27	-69.62	-38.88

Table 39A--U.S. feeder pig production cash costs and returns, 300-head operation, 1988-90

Item	1988	1989	1990
	<u>D</u>	ollars per co	<u>wt</u>
Cash receipts:			
Feeder pigs (79.4 lbs) 1/	59.43	55.84	85.55
Cull sows (20.6 lbs)	6.61	7.11	9.38
Total	66.04	62.95	94.93
Cash expenses:			
Feed			
Grain (469.5 lbs)	18.98	20.36	20.10
Protein supplements (119.4 lbs)	20.55	20.41	17.61
Pasture	.42	.35	. 32
Total feed costs	39.95	41.12	38.03
Other			
Veterinary and medicine	3.79	3.98	4.13
Livestock hauling	.40	.41	. 42
Marketing	1.90	2.05	2.1
Bedding (76 lbs)	. 84	. 88	. 92
Custom feed mixing	2.68	2.79	2.87
Fuel, lube, and electricity	10.29	11.66	13.14
Machinery and building repairs	6.13	6.41	6.72
Hired labor (0.1 hr)	. 45	. 56	. 62
Manure credit	16	17	10
Total, variable cash expenses	66.27	69.69	68.83
General farm overhead	2.81	2.96	3.06
Taxes and insurance	2.56	2.66	2.68
Interest	7.49	7,21	7.13
Total, fixed cash expenses	12.86	12.83	12.87
Total, cash expenses	79.13	82.52	81.70
Cash receipts less cash expenses	-13.09	-19.57	13.23
Capital replacement 2/	13.96	14.57	15.50
Total, cash expenses and replacement	93.09	97.09	97.20
Wet cash receipts	-27.05	-34.14	-2.2

Table 39B--U.S. feeder pig production economic costs and returns, 300-head operation, 1988-90  $\,$ 

Item ,	1988	1989	1990
		Dollars per co	<u>~t</u>
Total, cash receipts	66.04	62.95	94.93
Economic (full ownership) costs:			
Variable cash expenses	66.27	69.69	68.83
General farm overhead	2.81	2.96	3.06
Taxes and insurance	2.56	2.66	2.68
Capital replacement	13.96	14.57	15.50
Operating capital 3/	1.15	1.40	1.29
Other nonland capital 4/	3.61	3.98	4.56
Land 5/	1.40	1.62	1.53
Unpaid labor (5.72 hrs)	26.05	28.41	28.11
Total, economic costs	117.81	125.29	125.56
Residual returns to management and risk	-51.77	-62.34	-30.63

Table 40A--U.S. feeder pig production cash costs and returns, 650-head operation, 1988-90

Item	1988	1989	1990
		ollars per c	 wt
Cash receipts:	_		_
Feeder pigs (80.5 lbs) 1/	60.29	56.53	86.57
Cull sows (19.5 lbs)	6.28	6.82	9.01
Total	66.57	63.35	95.58
Cash expenses:			
Feed			
Grain (439.5 lbs)	17.68	18.96	18.71
Protein supplements (123 lbs)	22.74	22.78	19.68
Pasture	.18	.15	. 15
Total feed costs	40.60	41.89	38.54
Other			
Veterinary and medicine	. 44	. 47	. 49
Livestock hauling	.25	. 26	. 27
Marketing	3.28	3.45	3.57
Bedding (42 lbs)	.49	. 52	. 55
Custom feed mixing	.00	.00	.00
Fuel, lube, and electricity	5.51	6.31	7.18
Machinery and building repairs	5.11	5.31	5.56
Hired labor (0.2 hr)	. 93	1.02	1.01
Manure credit	17	18	17
Total, variable cash expenses	56.44	59.05	57.00
General farm overhead	2.80	2.94	3.04
Taxes and insurance	1.75	1.79	1.86
Interest	7.45	7.17	7.10
Total, fixed cash expenses	12.00	11.90	12.00
Total, cash expenses	68.44	70.95	69.00
Cash receipts less cash expenses	-1.87	-7.60	26.58
Capital replacement 2/	11.11	11.54	12.35
Total, cash expenses and replacement	79.55	82.49	81.35
Net cash receipts	-12.98	-19.14	14.23

Table 40B--U.S. feeder pig production economic costs and returns, 650-head operation, 1988-90

Item	1988	1989	1990
		Dollars per	<u>cwt</u>
Total, cash receipts	66.57	63.35	95.58
Economic (full ownership) costs:			
Variable cash expenses	56.44	59.05	57.00
General farm overhead	2.80	2.94	3.04
Taxes and insurance	1.75	1.79	1.86
Capital replacement	11.11	11.54	12.35
Operating capital 3/	. 98	1.19	1.06
Other nonland capital 4/	2.81	3.09	3.57
Land 5/	.38	.45	. 43
Unpaid labor (4.44 hrs)	20.52	22.33	21.97
Total, economic costs	96.79	102.38	101.28
Residual returns to management and risk	-30.22	-39.03	-5.70

Table 41A--U.S. feeder pig production cash costs and returns, 1,600-head operation, 1988-90  $\,$ 

Item	1988	1989	
		ollars per c	
Cash receipts:			
Feeder pigs (80.5 lbs) 1/	60.36	56.60	86.7
Cull sows (19.5 lbs)	6.28	6.81	8.99
Total	66.64	63.41	95.70 
ash expenses:			
Feed			
Grain (434.7 lbs)	17.55	18.81	18.5
Protein supplements (121.5 lbs)	22.14	22.17	19.0
Pasture	.07	.06	.00
Total feed costs	39.76	41.04	37.7
Other-	7.6	00	0.1
Veterinary and medicine	.75	. 80	. 8:
Livestock hauling	. 20 1 . 44	.21 1.52	.2. 1.5
Marketing	.19	.20	.2
Bedding (16 lbs)	.00	.00	.0
Custom feed mixing	7.02	8.07	9.1
Fuel, lube, and electricity	5.52	5.71	5.9
Machinery and building repairs Hired labor (0.18 hr)	1.08	1.18	1.2
Manure credit	17	17	1
Total, variable cash expenses	55.79	58.56	56.7
Total, valiable cash expenses	33.79	30.30	30.7
General farm overhead	2.78	2.93	3.0
axes and insurance	2.11	2.13	2.2
Interest	7.41	7.13	7.0
Total, fixed cash expenses	12.30	12.19	12.3
Total, cash expenses	68.09	70.75	69.0
Cash receipts less cash expenses	-1.45	-7.34	26.63
Capital replacement 2/	13.25	13.73	14.4
Total, cash expenses and replacement	81.34	84.48	83.5
let cash receipts	-14.70	-21.07	12.1

I tem	1988	1989	1990
		Dollars per c	wt
Total, cash receipts	66.64	63.41	95.70
Economic (full ownership) costs:			
Variable cash expenses	55.79	58.56	56.77
General farm overhead	2.78	2.93	3.03
Taxes and insurance	2.11	2.13	2.21
Capital replacement	13.25	13.73	14.47
Operating capital 3/	. 96	1.18	1.06
Other nonland capital 4/	3.31	3.63	4.14
Land 5/	. 13	.15	. 15
Unpaid labor (3.06 hrs)	19.40	21.07	20.72
Total, economic costs	97.73	103.38	102.55
Residual returns to management and risk	-31.09	-39.97	-6.85

Table 42A--U.S. feeder pig production cash costs and returns, 3,000-head operation, 1988-90

Item	1988	1989	1990
		ollars per c	 wt
Cash receipts:	_		
Feeder pigs (81.8 lbs) 1/	61.37	57.56	88.20
Cull sows (18.2 lbs)	5.83	6.32	8.32
Total	67.20	63.88	96.52
Cash expenses:		· 新京	*******
Feed			
Grain (410 lbs)	16.86	18.09	17.87
Protein supplements (114.6 lbs)	20.17	20.23	17.48
Pasture	.06	.05	.05
Total feed costs	37.09	38.37	35.40
Other			••••
Veterinary and medicine	1.02	1.10	1.15
Livestock hauling	.11	. 12	. 12
Marketing	1.34	1.41	1.46
Bedding (36 lbs)	.44	. 47	. 48
Custom feed mixing	.00	.00	.00
Fuel, lube, and electricity	5.18	5.89	6.69
Machinery and building repairs	4.22	4.37	4.56
Hired labor (0.56 hr)	4.75	5,13	5.23
Manure credit	15	15	14
Total, variable cash expenses	54.00	56.71	54.95
General farm overhead	2.75	2.89	2.99
Taxes and insurance	1.54	1.57	1.65
Interest	7.33	7.05	6.98
Total, fixed cash expenses	11.62	11.51	11.62
Total, cash expenses	65.62	68.22	66.57
Cash receipts less cash expenses	1.58	-4.34	29.95
Capital replacement 2/	10.45	10.86	11.69
Total, cash expenses and replacement	76.07	79.08	78.26
Net cash receipts	-8.87	-15.20	18.26

Table 42B--U.S. feeder pig production economic costs and returns, 3,000-head operation, 1988-90  $\,$ 

Item	1988	1989	1990
	<u>D</u>	ollars per co	<u>wt</u>
Total, cash receipts	67.20	63.88	96.52
Economic (full ownership) costs:			
Variable cash expenses	54.00	56.71	54.95
General farm overhead	2.75	2.89	2.99
Taxes and insurance	1.54	1.57	1.65
Capital replacement	10.45	10.86	11.69
Operating capital 3/	.93	1.14	1.03
Other nonland capital 4/	2.56	2.81	3.25
Land 5/	.08	. 10	.09
Unpaid labor (1.69 hrs)	13.58	14.66	14.43
Total, economic costs	85.89	90.74	90.08
Residual returns to management and risk	-18.69	-26.86	6.44

Table 43A--U.S. feeder pig production cash costs and returns, 10,000-head operation, 1988-90

Item	1988	1989	1990
	2	ollars per c	<u>vt</u>
Cash receipts:	60.76		00.00
Feeder pigs (83.7 lbs) 1/	62.75	58.86	90.20
Cull sows (16.3 lbs) Total	5.22 67.97	5.65 64.51	7.43 97.63
10C91	07,97	.==========	57.03
Cash expenses:			
Feed			
Grain (367.4 lbs)	15.42	16.56	16. <b>37</b>
Protein supplements (102.6 lbs)	15.86	15.91	13.77
Pasture	0	0	0
Total feed costs	31.28	32.47	30.14
Other			
Veterinary and medicine	2.17	2.33	2.44
Livestock hauling	.13	. 14	. 14
Marketing	. 54	.59	. 63
Bedding	0	0	0
Custom feed mixing	2.67	2.89	3.04
Fuel, lube, and electricity	4.82	5.33	6.00
Machinery and building repairs	2.54	2.62	2.74
Hired labor (1.47 hrs)	12.67	13.60	13.49
Manure credit	13	13	12
Total, variable cash expenses	56.69	59.84	58.50
General farm overhead	2.71	2.86	2.95
Taxes and insurance	1.08	1.11	1.20
Interest	7.23	9.96	6.89
Total, fixed cash expenses	11.02	13.93	11.04
Total, cash expenses	67.71	73.77	69.54
Cash receipts less cash expenses	. 26	-9.26	28.09
Capital replacement 2/	7.74	8.05	8.86
Total, cash expenses and replacement	75.45	81.82	78.40
Net cash receipts	-7.48	-17.31	19.23

Table 43B--U.S. feeder pig production economic costs and returns, 10,000-head operation, 1988-90

Item	1988	1989	1990	
		Dollars per cw		
Total, cash receipts	67.97	64.51	97.63	
	=======================================		-=======	
Economic (full ownership) costs:				
Variable cash expenses	56.69	59.84	58.50	
General farm overhead	2,71	2.86	2.95	
Taxes and insurance	1.08	1.11	1.20	
Capital replacement	7.74	8.05	8.86	
Operating capital 3/	. 98	1.20	1.09	
Other nonland capital 4/	1.97	2.16	2.54	
Land 5/	.01	.01	.01	
Unpaid labor (0.1 hr)	.88	. 95	. 99	
Total, economic costs	72.06	76.18	76.14	
Residual returns to management and risk	-4.09	-11.67	21.49	

Table 44A--Feeder pig production cash costs and returns, all sizes of operation, North-Central, 1988-90

Item	1988	1989	1990
	Dollars per cwt		
Cash receipts:			<del></del>
Feeder pigs (79.7 lbs) 1/	59.52	55.81	85.41
Cull sows (20.3 lbs)	6.56	7.15	9.47
Total	66.08	62.96	94.88
Cash expenses:			
Feed			
Grain (439.8 lbs)	17.36	18.63	18.40
Protein supplements (120.6 lbs)	21.10	21.15	18.27
Pasture	.07	.06	. 05
Total feed costs	38.53	39.84	36.72
Other			
Veterinary and medicine	1.55	1.70	1.78
Livestock hauling	.24	. 26	. 27
Marketing	1.68	1.79	1.85
Bedding (3 lbs)	. 42	. 47	. 50
Custom feed mixing	1.01	1.07	1.11
Fuel, lube, and electricity	6.54	7.69	8.71
Machinery and building repairs	4.80	4.98	5.09
Hired labor (0.3 hr)	2.45	2.61	2.55
Manure credit	18	19	18
Total, variable cash expenses	57.04	60.22	58.40
General farm overhead	2.85	3.00	3.10
Taxes and insurance	1.84	1.90	1.95
Interest	7.59	7.30	7.23
Total, fixed cash expenses	12.28	12.20	12.28
Total, cash expenses	69.32	72.42	70.68
Cash receipts less cash expenses	-3.24	-9.46	24.20
Capital replacement 2/	11.53	12.01	12.67
Total, cash expenses and replacement	80.85	84.43	83.35
Net cash receipts	-14.77	-21.47	11.53

Table 44B--Feeder pig production economic costs and returns, all sizes of operation, North-Central, 1988-90

Item	1988	1989	1990
	Dollars per cwt		
Total, cash receipts	66.08	62.96	94.88
Economic (full ownership) costs:			50.40
Variable cash expenses	57.04	60.22	58.40
General farm overhead	2.85	3.00	3.10
Taxes and insurance	1.84	1.90	1.95
Capital replacement	11.53	12.01	12.67
Operating capital 3/	.99	1.21	1.09
Other nonland capital 4/	2,90	3.19	3,64
Land 5/	.33	. 43	.41
Unpaid labor (3.43 hrs)	17.84	19.59	19.14
Total, economic costs	95.32	101.55	100.40
Residual returns to management and risk	-29.24	-38.59	-5.52

Table 45A--Feeder pig production cash costs and returns, all sizes of operation, Southeast, 1988-90

Item	1988	1989	1990	
106111				
Cash receipts:	<u>D</u>	Dollars per cwt		
Feeder pigs (86.7 lbs) 1/	65,11	60.96	93.30	
Cull sows (13.3 lbs)	4.11	4.49	5.95	
Total	69.22	65.45	99.25	
Cash expenses:				
Feed				
Grain (379.1 lbs)	17.87	19.19	18.91	
Protein supplements (103.6 lbs)	18.73	18.79	16.24	
Pasture	. 56	. 45	.45	
Total feed costs	37.16	38.43	35.60	
Other	1 07	1 24	1 (0	
Veterinary and medicine	1.27	1.34	1.40	
Livestock hauling	.02	.02	.02	
Marketing Bedding (14 lbs)	2.09 .16	2.24 .17	2.32	
Custom feed mixing	1.89	1.85	1.93	
Fuel, lube, and electricity	5.49	6.05	6.99	
Machinery and building repairs	5,05	5.33	5.57	
Hired labor (1 hr)	7.14	7.23	7.42	
Manure credit	0	0	0	
Total, variable cash expenses	60.27	62.66	61.43	
Total, valiable vasa expenses	00,27	02.00	010	
General farm overhead	2.37	2,50	2.58	
axes and insurance	1.71	1,77	1.88	
nterest	6.32	6.08	6.02	
Total, fixed cash expenses	10.40	10.35	10.48	
Total, cash expenses	70.67	73.01	71.91	
ash receipts less cash expenses	-1.45	-7.56	27.34	
Capital replacement 2/	11.38	11.97	13.32	
Total, cash expenses and replacement	82.05	84.98	85.23	
Het cash receipts	-12.83	-19.53	14.02	
Table 45BFeeder pig production economic costs Southeast, 1988-90	and returns, all	sizes of op	eration,	
Item	1988	1989	1990	
•	Dollars per cwt			
Total, cash receipts	69.22	65.45	99.25	
Economic (full ownership) costs:	C0 07	60.65		
Variable cash expenses	60.27	62.66	61.43	
General farm overhead	2.37	2.50	2.58	
Taxes and insurance Capital replacement	1.71 11.38	1.77	1.88	
	11.38	11.97 1.26	13.32	
Operating capital 3/ Other nonland capital 4/	2.87	3.19	1.15	
Land 5/	.45	. 50		
Unpaid labor (3.68 hrs)	17.46	18.38	. 49 18.87	
Total, economic costs	97.55	102.23	103.52	
10021, GOORDINIC COSES	87.33	102.23	103.32	

risk -28.33 -36.78 -4.27

See footnotes at end of Table 55B.

Residual returns to management and risk

Table 46A--U.S. feeder pig finishing production cash costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
	<u>Dollars per cwt</u>		
Cash receipts:			
Slaughter hogs (100 lbs) 1/	42.84	43.50	53.79
Total	42.84	43.50	53.79
Cash expenses:			
Feeders			
Feeder pigs (22.7 lbs)	15.72	14.76	22.63
Feed	13.72	14.76	22.00
Grain (239.2 lbs)	9.72	10.44	10.33
Protein supplements (56.8 lbs)	7.34	7.34	6.34
Pasture	.01	.01	.01
Total feed costs	17.07	17.79	16.68
Other	2,,0,	27.75	10.00
Veterinary and medicine	.49	. 52	.54
Livestock hauling	. 16	.17	.18
Marketing	.45	. 47	• .49
Bedding (8 lbs)	.10	. 10	.11
Custom feed mixing	.07	. 07	.08
Fuel, lube, and electricity	.97	1.20	1.37
Machinery and building repairs	1.66	1.73	1.80
Hired labor (0.07 hr)	.46	. 50	. 49
Manure credit	15	15	14
Total, variable cash expenses	37.00	37.16	44.23
General farm overhead	1.92	2.02	2.08
Taxes and insurance	. 48	. 47	.48
Interest	4.86	4.68	4.63
Total, fixed cash expenses	7.26	7.17	7.19
Total, cash expenses	44.26	44.33	51.42
Cash receipts less cash expenses	-1.42	83	2.37
Capital replacement 2/	3.10	3.20	3.33
Total, cash expenses and replacement	47.36	47.53	54.75
Net cash returns	-4.52	-4.03	96

Table 46B--U.S. feeder pig finishing production economic costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
		Dollars per cu	vt_
Total, cash receipts	42.84	43.50	53.79
Economic (full ownership) costs:			
Variable cash expenses	37.00	37.16	44.23
General farm overhead	1.92	2.02	2.08
Taxes and insurance	.48	.47	.48
Capital replacement	3.10	3.20	3.33
Operating capital 3/	.43	. 50	. 55
Other nonland capital 4/	.72	. 79	. 87
Land 5/	.02	.03	. 03
Unpaid labor (0.29 hr)	1.42	1.54	1.52
Total, economic costs	45.09	45.71	53.09
Residual returns to management and risk	-2.25	-2.21	. 70

Table 47A--U.S. feeder pig finishing production cash costs and returns, 140-head operation, 1988-90

Item	1988	1989	1990
		Dollars per cwt	
Cash receipts:	10.67	/1 20	61 22
Slaughter hogs (100 lbs) 1/ Total	40.67 40.67	41.38 41.38	51.23 51.23
Cash expenses:			
Feeders			
Feeder pigs (23.3 lbs)	16.43	15.46	23.70
Feed			
Grain (241.3 lbs)	10.04	10.85	10.74
Protein supplements (44.7 lbs)	7.67	7,66	6.62
Pasture	. 14	. 13	. 14
Total feed costs	17.85	18.64	17.50
Other			
Veterinary and medicine	.78	. 83	. 86
Livestock hauling	.08	.08	.08
Marketing	.77	. 81	. 83
Bedding (18 lbs)	, 20	.21	. 22
Custom feed mixing	. 99	1.23	1.35
Fuel, lube, and electricity	1.26	1.51	1.75
Machinery and building repairs	1.95	2.02	2.13
Hired labor (0.04 hr)	. 17	.18	. 17
Manure credit	11	11	10
Total, variable cash expenses	40.37	40.86	48.49
General farm overhead	1.85	1.95	2.02
Taxes and insurance	. 56	. 57	. 58
Interest	4.70	4.53	4.48
Total, fixed cash expenses	7.11	7.05	7.08
Total, cash expenses	47.48	47.91	55.57
Cash receipts less cash expenses	-6.81	-6.53	-4.34
Capital replacement 2/	3.94	4.09	4.31
Total, cash expenses and replacement	51.42	52.00	59.88
Net cash returns	-10.75	-10.62	-8.65

Table 47B--U.S. feeder pig finishing production economic costs and returns, 140-head operation, 1988-90

Item	1988	1989	1990
	<u>p</u>	ollars per cv	<u>vt</u>
Total, cash receipts	40.67	41.38	51.23
Economic (full ownership) costs:			
Variable cash expenses	40.37	40.86	48.49
General farm overhead	1.85	1.95	2.02
Taxes and insurance	.56	. 57	.58
Capital replacement	3.94	4.09	4.31
Operating capital 3/	. 47	. 55	. 60
Other nonland capital 4/	.96	1.04	1.17
Land 5/	. 14	.18	.18
Unpaid labor (0.78 hr)	3.35	3.65	3.66
Total, economic costs	51.64	52.89	61.01
Residual returns to management and risk	-10.97	-11.51	-9.78

Table 48A--U.S. feeder pig finishing production cash costs and returns, 300-head operation, 1988-90

Item	1988	198 <b>9</b>	1990	
	D	Dollars per cwt		
Cash receipts:				
Slaughter hogs (100 lbs) 1/	42.53	43.16	53.37	
Total	42.53	43.16	53.37	
Cash expenses:				
Feeders				
Feeder pigs (22.6 lbs)	15.91	14.95	22.91	
Feed				
Grain (241.8 lbs)	9.75	10.50	10.39	
Protein supplements (44.6 lbs)	7.68	7.66	6,62	
Pasture	.04	.03	.04	
Total feed costs	17.47	18.19	17.05	
Other				
Veterinary and medicine	. 53	. 57	. 59	
Livestock hauling	. 26	. 27	.28	
Marketing	. 52	. 54	. 56	
Bedding (8 lbs)	.09	.10	. 10	
Custom feed mixing	.00	.00	.00	
Fuel, lube, and electricity	1.06	1.41	1.59	
Machinery and building repairs	1.80	1.86	1.91	
Hired labor (0.11 hr)	. 53	. 58	. 57	
Manure credit	13	14	13	
Total, variable cash expenses	38.04	38.33	45.43	
General farm overhead	1.91	2.01	2.08	
Taxes and insurance	. 51	.50	.50	
Interest	4.85	4.66	4.62	
Total, fixed cash expenses	7,27	7.17	7.20	
Total, cash expenses	45.31	45.50	52.63	
Cash receipts less cash expenses	-2.78	-2,34	. 74	
Capital replacement 2/	3.16	3.29	3.38	
Total, cash expenses and replacement	48.47	48.79	56.01	
Net cash returns	-5.94	-5.63	-2.64	

Table 48B--U.S. feeder pig finishing production economic costs and returns, 300-head operation, 1988-90

Item	1 <b>98</b> 8	1989	1990
		Dollars per cw	<u>,t</u>
Total, cash receipts	42.53	43.16	53.37
Economic (full ownership) costs:			
Variable cash expenses	38.04	38.33	45.43
General farm overhead	1.91	2.01	2.08
Taxes and insurance	.51	. 50	.50
Capital replacement	3.16	3.29	3.38
Operating capital 3/	.44	. 51	. 57
Other nonland capital 4/	. 73	. 80	. 87
Land 5/	. 05	. 06	.06
Unpaid labor (0.43 hr)	1.95	2.12	2.09
Total, economic costs	46.79	47.62	54.98
Residual returns to management and risk	-4.26	-4.46	-1.61

Table 49A--U.S. feeder pig finishing production cash costs and returns, 650-head operation, 1988-90

Item	1988	1989	1990
	D	ollars per co	<u>vt</u>
Cash receipts:			
Slaughter hogs (100 lbs) 1/	43.08	43.71	54.05
Total	43.08	43.71	54.05
***************************************			
Cash expenses: Feeders			
Feeder pigs (22.4 lbs)	15.49	14.53	22.27
Feed		27.20	
Grain (242 lbs)	9.72	10.44	10.32
Protein supplements (44.7 lbs)	7.58	7.57	6.54
Pasture	0	0	0
Total feed costs	17.30	18.01	16.86
Other			
Veterinary and medicine	. 46	. 50	. 52
Livestock hauling	.09	. 10	. 10
Marketing	. 46	. 48	. 50
Bedding (14 lbs)	.16	.17	. 18
Custom feed mixing	0	0	0
Fuel, lube, and electricity	1.08	1.39	1.58
Machinery and building repairs	1.54	1.61	1.67
Hired labor (0.07 hr)	. 35	.38	. 38
Manure credit	14	14	13
Total, variable cash expenses	36.79	37.03	43.93
General farm overhead	1.93	2.03	2.10
Taxes and insurance	.41	. 41	.41
Interest	4.98	4.72	4.67
Total, fixed cash expenses	7.32	7.16	7.18
Total, cash expenses	44.11	44.19	51.11
Cash receipts less cash expenses	-1.03	48	2.94
Capital replacement 2/	2.62	2.73	2.84
Total, cash expenses and replacement	46.73	46.92	53.95
Net cash returns	-3.65	-3.21	.10

Table 49B--U.S. feeder pig finishing production economic costs and returns, 650-head operation, 1988-90

· Item		1989	1990
		Dollars per cv	<u>vt</u>
Total, cash receipts	43.08	43.71	54.05
Economic (full ownership) costs:			
Variable cash expenses	36.79	37.03	43.93
General farm overhead	1.93	2.03	2.10
Taxes and insurance	.41	.41	.41
Capital replacement	2.62	2.73	2.84
Operating capital 3/	.42	. 50	. 55
Other nonland capital 4/	. 60	. 66	. 73
Land 5/	.01	.01	.01
Unpaid labor (0.37 hr)	1.59	1.74	1.71
Total, economic costs	44.37	45.11	52.28
Residual returns to management and risk	-1.29	-1.40	1.77

Table 50A--U.S. feeder pig finishing production cash costs and returns, 1,600-head operation, 1988-90

Item	1988	1989	1990
			 wt.
Cash receipts:	-	ollars per co	
Slaughter hogs (100 lbs) 1/	43.10	43.73	54.08
Total	43.10	43.73	54.08
Cash expenses:			======
Feeders			
Feeder pigs (22.5 lbs)	15.52	14.56	22.31
Feed		11,00	20.01
Grain (240.8 lbs)	9.70	10.41	10.29
Protein supplements (48.3 lbs)	7.54	7.54	6.52
Pasture	0	0	0
Total feed costs	17.24	17.95	16.81
Other			
Veterinary and medicine	.48	. 52	. 54
Livestock hauling	.19	.21	.21
Marketing	. 45	. 47	.49
Bedding (6 lbs)	. 09	.09	. 10
Custom feed mixing	0	0	0
Fuel, lube, and electricity	1.02	1.22	1.40
Machinery and building repairs	1.74	1.81	1.87
Hired labor (0.08 hr)	. 54	. 58	. 58
Manure credit	13	14	13
Total, variable cash expenses	37.14	37.27	44.18
General farm overhead	1.93	2,03	2.10
Taxes and insurance	.53	.53	. 53
Interest	4.91	4.72	4.67
Total, fixed cash expenses	7.37	7.28	7.30
Total, cash expenses	44.51	44.55	51.48
Cash receipts less cash expenses	-1.41	82	2.60
Capital replacement 2/	3.58	3.70	3.80
Total, cash expenses and replacement	48.09	48.25	55.28
Net cash returns	-4.99	-4.52	-1.20

Table 50B--U.S. feeder pig finishing production economic costs and returns, 1,600-head operation, 1988-90

Item	1988	1989	1990
		<u>vt</u>	
Total, cash receipts	43.10	43.73	54.08
Economic (full ownership) costs:			
Variable cash expenses	37.14	37.27	44.18
General farm overhead	1.93	2.03	2.10
Taxes and insurance	, 53	. 53	. 53
Capital replacement	3.58	3.70	3.80
Operating capital 3/	.43	. 50	. 5 5
Other nonland capital 4/	.83	. 90	. 98
Land 5/	.01	.01	.01
Unpaid labor (0.19 hr)	1.10	1,20	1.18
Total, economic costs	45.55	46.14	53.33
Residual returns to management and risk	-2.45	-2.41	.75

Table 51A--U.S. feeder pig finishing production cash costs and returns, 3,000-head operation, 1988-90

Item	1988	1989	1990
	Dollars per cwt		
Cash receipts:			
Slaughter hogs (100 lbs) 1/	43.09	43.72	54.06
Total	43.09	43.72	54.06
Cash expenses:			
Feeders			
Feeder pigs (22.8 lbs)	15.71	14.75	22.61
Feed			
Grain (235.8 lbs)	9.64	10.36	10.25
Protein supplements (79.3 lbs)	7.10	7.11	6.10
Pasture	0	0	0
Total feed costs	16.74	17.47	16.35
Other			
Veterinary and medicine	.35	. 37	. 39
Livestock hauling	.18	. 19	. 20
Marketing	.44	. 46	. 48
Bedding (4 lbs)	.06	.06	. 06
Custom feed mixing	0	0	0
Fuel, lube, and electricity	.82	. 98	1.13
Machinery and building repairs	1.62	1.69	1.79
Hired labor (0.04 hr)	.37	. 40	. 40
Manure credit	12	13	12
Total, variable cash expenses	36.17	36.24	43.29
General farm overhead	1.93	2.04	2.10
Taxes and insurance	.46	. 46	. 47
Interest	4.91	4.72	4.68
Total, fixed cash expenses	7.30	7.22	7.25
Total, cash expenses	43.47	43.46	50.54
Cash receipts less cash expenses	38	. 26	3.52
Capital replacement 2/	.2,90	3.02	3.17
Total, cash expenses and replacement	46.37	46.48	53.71
Net cash returns	-3.28	-2.76	.35

Table 51B--U.S. feeder pig finishing production economic costs and returns, 3,000-head operation, 1988-90

Item	1988	1989	1990
		Dollars per cv	<u>vt</u>
Total, cash receipts	43.09	43.72	54.06
Economic (full ownership) costs:			
Variable cash expenses	36.17	36.24	43.29
General farm overhead	1.93	2.04	2.10
Taxes and insurance	. 46	. 46	. 47
Capital replacement	2.90	3.02	3.17
Operating capital 3/	.42	. 49	. 54
Other nonland capital 4/	.70	.77	. 86
Land 5/	.01	.01	.01
Unpaid labor (0.14 hr)	1.12	1.21	1.19
Total, economic costs	43.71	44.24	51.63
Residual returns to management and risk	62	52	2.43

Table 52A--U.S. feeder pig finishing production cash costs and returns, 10,000-head operation, 1988-90

Item	1988	1989	1990
		Dollars per cwt	
Cash receipts:			
Slaughter hogs (100 lbs) 1/	43.07	43.70	54.04
Total	43.07	43.70	54.04
Cash expenses:			
Feeders			
Feeder pigs (23.1 lbs)	15.94	14.97	22.97
Feed			
Grain (232.1 lbs)	9.66	10.38	10.28
Protein supplements (76.9 lbs)	6.47	6.50	5.66
Pasture	0	0	0
Total feed costs	16.13	16.88	15.94
Other			
Veterinary and medicine	. 52	. 56	. 59
Livestock hauling	.15	.16	. 17
Marketing	. 24	.26	. 27
Bedding (2 lbs)	.03	. 03	. 03
Custom feed mixing	0	0	0
Fuel, lube, and electricity	.67	.81	. 93
Machinery and building repairs	1.49	1.56	1.66
Hired labor (0.08 hr)	.66	.72	.71
Manure credit	23	24	23
Total, variable cash expenses	35.60	35.71	43.04
General farm overhead	1.94	2.04	2.11
Taxes and insurance	.43	. 43	.45
Interest	4.91	4.73	4.68
Total, fixed cash expenses	7.28	7.20	7.24
Total, cash expenses	42.88	42.91	50.28
Cash receipts less cash expenses	. 19	. 79	3.76
Capital replacement 2/	2.74	2.84	3.01
Total, cash expenses and replacement	45.62	45.75	53.29
Net cash returns	-2.55	-2.05	.75

Table 52B--U.S. feeder pig finishing production economic costs and returns, 10,000-head operation, 1988-90

Item	1988	1989	1990
	<u>D</u>	ollars per co	<u>wt</u>
Total, cash receipts	43.07	43.70	54.04
Economic (full ownership) costs:			
Variable cash expenses	35.60	35.71	43.04
General farm overhead	1.94	2.04	2.11
Taxes and insurance	. 43	.43	.45
Capital replacement	2.74	2.84	3.01
Operating capital 3/	.41	. 47	.54
Other nonland capital 4/	. 65	.71	.80
Land 5/	.01	.01	.01
Unpaid labor (0.09 hr)	.70	.76	.74
Total, economic costs	42.48	42.97	50.70
Residual returns to management and risk	.59	.73	3.34
See footnotes at end of Table 55B.			

Table 53A--Feeder pig finishing production cash costs and returns, all of operation, North-Central, 1988-90

Item	1988	1989	1990	
		Dollars per cwt		
Cash receipts:				
Slaughter hogs (100 lbs) 1/	42.84	43.50	53.80	
Total	42.84	43.50	53.80	
Cash expenses:				
Feeders				
Feeder pigs (22.1 lbs)	15.34	14.38	22.01	
Feed Grain (239.5 lbs)	9,45	10.13	10.00	
Protein supplements (45.4 lbs)	7.34	7.33	6.33	
Pasture	0	0	0	
Total feed costs	16,79	17.46	16.33	
Other				
Veterinary and medicine	.50	. 53	. 55	
Livestock hauling	.17	.19	. 20	
Marketing	. 46	. 48	. 50	
Bedding (10 lbs) Custom feed mixing	.11	. <b>1</b> 2	. 13	
Fuel, lube, and electricity	.95	1.21	1.38	
Machinery and building repairs	1.65	1.72	1.75	
Hired labor (0.07 hr)	.43	.48	. 47	
Manure credit	17	18	17	
Total, variable cash expenses	36.23	36.39	43.15	
•				
General farm overhead	1.91	2.01	2.08	
Taxes and insurance	. 47	. 46	. 47	
Interest	4.84	4.66	4,61	
Total, fixed cash expenses	7.22	7.13	7.16	
Total, cash expenses	43.45	43.52	50.31	
Cash receipts less cash expenses	-, ,61	02	3.49	
Capital replacement 2/	3.06	3.16	3.22	
Total, cash expenses and replacement	46.51	46.68	53.53	
Net cash returns	-3.67	-3.18	. 27	
Table 53BFeeder pig finishing production econor of operation, North-Central, 1988-90  Item	1988	1989	1990	
		Dollars per cwt		
fotal, cash receipts	42.84	43.50	53.80	
Economic (full ownership) costs:				
Variable cash expenses	36.23	36.39	43.15	
General farm overhead	1.91	2.01	2.08	
Taxes and insurance	. 47	. 46	. 47	
Capital replacement	3.06	3.16	3.22	
Operating capital 3/	. 42	. 49	. 54	
Other nonland capital 4/	. 72	. 79	. 85	
Land 5/	.01	.01	.01	
Unpaid labor (0.29 hr)	1.41	1.54	1.51	
Total, economic costs	44.23	44.85	51.83	
Residual returns to management and risk	-1.39	-1.35	1.97	
See footnotes at end of Table 55B				

Table 54A--Feeder pig finishing production cash costs and returns, all of operation, Southeast, 1988-90

Item		1989	
		ollars per c	
Cash receipts:			
Slaughter hogs (100 lbs) 1/		43.45	
Total	<b>42</b> .82	43.45	53.73
Cash expenses:			
Feeders			
Feeder pigs (25.7 lbs)	17.76	16.64	25.47
Feed			
Grain (237 lbs)	11.17	11.98	11.81
Protein supplements (66 lbs)	<b>7.3</b> 3	7.37	6.40
Pasture	.09	.08	. 08
Total feed costs	18.59	19.43	18.29
Other			
Veterinary and medicine	.43	.46	. 48
Livestock hauling	.09	.10	.10
Marketing	.41	. 43	. 44
Bedding (2 lbs)	. 02	.02	. 02
Custom feed mixing	. 46	. 44	. 46
Fuel, lube, and electricity	1.04	1.13	1.33
Machinery and building repairs	1.71	1.77	1.87
Hired labor (0.09 hr)	. <b>5</b> 8	.60	. 62
Manure credit	0	0	0
Total, variable cash expenses	41.09	41.02	49.08
General farm overhead	1.95	2.06	2.13
Taxes and insurance	. 53	. 52	. 54
Interest	4.96	7.77	4.72
Total, fixed cash expenses	7.44	10.35	7.39
Total, cash expenses	48.53	51.37	56.47
Cash receipts less cash expenses	-5.71	-7.92	-2.74
Capital replacement 2/	3.29	3,39	3.80
Total, cash expenses and replacement	51.82	54.76	
Net cash returns	-9.00	-11.31	-6.54

Table 54B--Feeder pig finishing production economic costs and returns, all of operation, Southeast, 1988-90

Item	1988	1989	1990
	<u> </u>	Oollars per co	<u>√t</u>
Total, cash receipts	42.82	43.45	53.73
Economic (full ownership) costs:			
Variable cash expenses	41.09	41.02	49.08
General farm overhead	1.95	2.06	2.13
Taxes and insurance	. 53	. 52	. 54
Capital replacement	3. <b>2</b> 9	3.39	3.80
Operating capital 3/	. 47	. 55	. 61
Other nonland capital 4/	.74	.80	. 96
Land 5/	.08	.09	.09
Unpaid labor (0.31 hr)	1.47	1.52	1.56
Total, economic costs	49.62	49.95	58.77
Residual returns to management and risk	-6.80	-6.50	-5.04

Table 55A--U.S. sheep production cash costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
	Do	llars per ew	 e
Cash receipts	_		
Slaughter lambs (31.9 lbs) 1/	20.36	19.56	16.67
Feeder lambs (26.6 lbs)	21.06	19.56	14.92
Cull ewes (29.1 lbs)	6.76	6.76	6.24
Wool (10 lbs)	15.17	13.46	9.50
Wool payment	4.41	6.08	12.7
Unshorn lamb payment	.87	1.21	2.1
Total	68.63	66.63	62.2
Cash expenses:	********		
Feed			
Grain (0.74 bu)	2.00	2.18	2.04
Protein supplements (0.38 cwt)	4.30	4.49	4.29
Salt and minerals (7 lbs)	. 40	.42	. 43
Hay (0.1 ton)	3.89	3.58	3.68
Pasture	3.12	3.37	3.23
Public grazing	.77	. 94	. 93
Crop residue	.05	.06	. 0
Total feed costs	14.53	15.04	14.6
Other	14.33	15.04	14.00
Veterinary and medicine	1.13	1.22	1.28
Livestock hauling	1.13	1.36	1.4
Marketing	.32	.34	.3
Ram death loss	.30	. 28	. 2
Shearing and tagging	1.26	1.30	1.3
Fuel, lube, and electricity	1.19	1.38	1.5
	2.44	2.54	2.6
Machinery and building repairs			
Hired labor (1.42 hrs)	6.76	6.99	7.3
Miscellaneous	1.25	1.32	1.39
Total, variable cash expenses	30.45	31.77	32.1
General farm overhead	3.49	3.67	3.80
Taxes and insurance	2.80	3.00	3.0
Interest	6.13	5.90	5.8
Total, fixed cash expenses	12.42	12.63	12.6
Total, cash expenses	42.87	44.40	44.8
Cash receipts less cash expenses	25.76	22.23	17.4
Capital replacement 2/	7.96	8.13	8.1
Total, cash expenses and replacement	50.83	52.53	53.02
Net cash receipts	17.80	14.10	9.25

Table 55B--U.S. sheep production economic costs and returns, all sizes of operation, 1988-90

Item	1988	1989	1990
	<u>Do:</u>	llars per ew	2
Total, cash receipts	68.63	66.63	62.27
Economic (full ownership) costs:		:	
Variable cash expenses	30.45	31.77	32.17
General farm overhead	3.49	3.67	3.80
Taxes and insurance	2.80	3.00	3.02
Capital replacement	7.96	8.13	8.19
Operating capital 3/	1.05	1,28	1.20
Other nonland capital 4/	3,52	3.74	3.88
Land 5/	6.09	7.87	8.90
Unpaid labor (2.1 hrs)	7.93	8.22	8.64
Total, economic costs	63.29	67.68	69.80
Residual returns to management and risk	5.34	-1.05	-7.53

1/ Quantities per unit in the parentheses are for the latest survey year and will vary for earlier years. 2/ Capital replacement cost is treated as a cash cost. 3/ Variable expense items multiplied by part of year used and 6-month U.S. Treasury bill rates.
4/ Value of machinery and equipment multiplied by longrun real rate of return to production assets in farm sector. 5/ Value of land multiplied by longrun real rate of return to production assets in the farm sector. 6/ Estimates of costs and returns for the 1985-88 are based on 1985 dairy Farm Costs and Returns Survey, while estimates for the 1989-90 are based on the 1989 dairy FCRS. 6/ Expenses for paid and unpaid labor for the 1985-88 dairy costs of production are backcasted by the indexes of prices paid for wage rates from the 1989 dairy FCRS. 7/ Cash receipts used as a proxy for the value of production.

Table 56A--U.S. milk production cash costs and returns, all sizes of operation, per cwt, 1972-88

Item	1972	1973	1974	1975	1976	1977	1978	1979		
				Dollars						
Cash receipts:										
Milk	6.07	7.13	8.33	8.58	9.57		10.49			
Cattle	0.79	1.03	. 79	.65	.75	.74	1.06	1.49		
Total	6.86	8.16	9.12	9.23	10.32		11.55			
Cash expenses:										
Feed	2.28	3.17	3.95	3.99	4.10	3.86	3.79	4.32		
Concentrates	1.51	2.17	2.72	2.71	2.71	2.66	2.68	3.02		
Byproducts										
Нау	. 44	. 57	.70	.73	.79	. 69	. 64	.74		
Silage	.31	.40	.49	. 51	. 56	.48	. 44	. 52		
Pasture and other forage	.02	.03	.04	. 04	.04	. 03	. 03	. 04		
Other										
Milk hauling and marketing	.31	.32	.33	.31	.31	.32	. 33	.38		
Artificial insemination	.05	.05	.06	.07	.08	.08	.08	.09		
Veterinary and medicine	. 12	. 13	. 14	. 16	. 17	.17	. 17	. 18		
Livestock hauling	.01	.01	.02	.01	.01	.01	.01	. 02		
Fuel, lube, and electricity	.12	. 13	. 17	. 19	. 19	. 20	.21	. 27		
Machinery and building repairs	.20	.22	. 26	.30	.28	. 27	.28	.30		
Hired labor	.45	. 50	. 56	.60	. 62	,65	. 69	.74		
DHIA fees	.02	.02	.03	.03	.03	.04	.04	.04		
Dairy supplies	.09	.10	. 12	.14	. 14	. 14	.15	. 17		
Dairy assessment	.00	. 10		0	0	0	0	0		
Total, variable cash expenses	3.65	4.65	5.64	5.80	5.93	5.74	5.75	6.51		
General farm overhead	.09	.12	. 16	. 19	. 23	. 24	. 29	. 38		
	.10	.12	. 15	. 14	.16	.18	. 23	. 29		
Taxes and insurance				.68		.74	. 83	1.08		
Interest	. 41	. 52	.65		.76					
Total, fixed cash expenses	.60	.76	. 96	1.01	1.15	1.16	1.33	1.75		
Total, cash expenses	4.25	5.41	6.60	6.81	7.08	6.90	7.08	8.26		
Cash receipts less cash expenses	2.61	2.75	2.52	2.42	3.24	3.46	4.47	5.16		
Capital replacement	. 73	.86	. 98	.87	. 92	. 96	1.14	1.47		
Total, cash expenses and replacement	4.98	6.27	7.58	7.68	8.00	7.86	8,22	9.73		
Net cash returns	1.88	1.89	1.54	1.55	2.32	2.50	3.33	3.69		
							Cont	inued-		
Table 56BU.S. milk production economic costs	and retur	ns, all	sizes	of oper	ation,	per cwt	, 1972-	88		
The own	1072	1073	1074	1075	1076	1077	1079	1070		
Item		19/3		19/3	19/0	1977	19/0	1979		
				Dol1	ars					
								13.42		

Economic (full ownership) costs: Variable cash expenses 3.65 4.65 5.64 5.80 5.93 5.74 5.75 6.51 
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 General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Unpaid labor 5.98 7.36 8.79 8.79 9.09 9.04 9.49 11.07 Total, economic costs Residual returns to management and risk .88 .80 .33 .44 1.23 1.32 2.06 2.35 Pounds of milk per unit 11,531 11,373 11,569 11,611 12,309 12,645 12,696 12,912

Continued--

Cash receipts:  Milk	Th						<b></b>			
Cash receipts:    Milk	1 cem	1980	1981	1982	1983	1984	1985	1986	1987	1988
Milk	Cash receipts:					Dollar	<u>s</u>			
Cattle		12 05	13 60	13 52	12 60	12 20	12 70	12 47	12 51	12 22
Total										
Cash expenses: Feed Cash expenses: Feed Cash expenses: Feed Concentrates 3.35 3,45 3,28 3,44 3,47 3,30 5,06 4,82 5,08 8,00 8,00 8,00 8,00 8,00 8,00 8,00										
Peed-	******************************									
Concentrates										
Byproducts				4.72	4.88		5.30	5.06	4.82	5.90
Hay   86		3.35	3.45	3.28	3.43	3.47				3.42
Silage										
Pasture and other forage	•			• •						
Milk hauling and marketing								* -		
Attificial insemination		.04	. 04	. 04	. 04	.04	.00	.00	.00	. 07
Attificial insemination	Milk hauling and marketing	. 43	. 45	. 45	.44	.45	. 58	. 55	.61	.61
Livestock hauling	Artificial insemination	.10	.11	. 12						. 12
Fuel, lube, and electricity		. 19	. 20	. 20	. 21	. 22	. 20	.20	. 20	.20
Machinery and building repairs	•	. 02	. 02	. 02	.02	.02	.03	.03	.03	. 03
Hired labor 7.7	· · · · · · · · · · · · · · · · · · ·					•				
DHIA fees    04										
Dairy supplies										
Dairy assessment										
Miscellaneous Total, variable cash expenses 7.30 7.45 7.39 7.98 8.07 8.10 7.93 7.59 8.54  General farm overhead 4.6 5.4 .60 .50 .60 .53 .59 .70 .81  Taxes and insurance 3.4 .37 .35 .36 .34 .37 .35 .35 .39  Interest 1.29 1.52 1.55 1.55 1.63 1.41 1.23 1.03 1.02  Total, fixed cash expenses 2.09 2.43 2.51 2.41 2.57 2.31 2.17 2.08 2.22  Total, cash expenses 9.39 9.88 9.90 10.39 10.64 10.41 10.10 9.67 10.76  Cash receipts less cash expenses 4.94 5.06 4.76 4.20 3.81 3.35 3.39 4.02 2.71  Capital replacement 1.61 1.64 1.57 1.58 1.55 1.70 1.64 1.59 1.70  Total, cash expenses and replacement 11.00 11.52 11.47 11.97 12.20 12.11 11.74 11.26 12.46  Net cash returns 3.33 3.42 3.19 2.62 2.25 1.65 1.75 2.43 1.01  Table 56BU.S. milk production economic costs and returns, United States, per cwt, 1972-88continued  Tem 1980 1981 1982 1983 1984 1985 1986 1987 1988  Dollars  Total, cash expenses 7.30 7.45 7.39 7.98 8.07 8.10 7.93 7.59 8.54  General farm overhead 4.6 5.4 6.0 5.0 6.0 5.3 5.9 7.0 8.1  Taxes and insurance 3.4 3.7 3.5 3.6 3.4 3.7 3.5 3.5 3.9  Capital replacement 1.61 1.64 1.57 1.58 1.56 1.70 1.64 1.59 1.70  Operating capital 1.31 1.5 1.2 12 1.2 1.2 1.2 0.8 0.5 0.6 0.8  Other nonland capital 1.32 1.46 1.51 1.49 1.58 1.67 1.68 1.69 1.70  Total, economic costs 12.27 12.64 1.51 1.49 1.58 1.67 1.68 1.69 1.76  Total, economic costs 12.27 12.64 12.50 12.91 12.95 13.16 12.90 12.70 14.11	· · · · · · · · · · · · · · · · · · ·						-			
Total, variable cash expenses 7.30 7.45 7.39 7.98 8.07 8.10 7.93 7.59 8.54  General farm overhead		.00	.00	.00	.40	. 50	. 15	. 30	. 15	.03
Taxes and insurance		7.30	7.45	7,39	7.98	8.07	8.10	7.93	7.59	8.54
Taxes and insurance	General farm overhead	. 46	. 54	. 60	. 50	. 60	. 53	. 59	. 70	. 81
Interest										
Total, cash expenses 9.39 9.88 9.90 10.39 10.64 10.41 10.10 9.67 10.76  Cash receipts less cash expenses 4.94 5.06 4.76 4.20 3.81 3.35 3.39 4.02 2.71  Capital replacement 1.61 1.64 1.57 1.58 1.56 1.70 1.64 1.59 1.70  Total, cash expenses and replacement 11.00 11.52 11.47 11.97 12.20 12.11 11.74 11.26 12.46  Net cash returns 3.33 3.42 3.19 2.62 2.25 1.65 1.75 2.43 1.01  Table 56BU.S. milk production economic costs and returns, United States, per cwt, 1972-88continued  Item 1980 1981 1982 1983 1984 1985 1986 1987 1988  Dollars  Total, cash receipts 14.33 14.94 14.66 14.59 14.45 13.76 13.49 13.69 13.47  Economic (full ownership) costs:  Variable cash expenses 7.30 7.45 7.39 7.98 8.07 8.10 7.93 7.59 8.54  General farm overhead 4.6 5.4 60 5.0 60 5.3 5.9 .70 81  Taxes and insurance 3.4 3.7 3.5 3.6 3.4 3.7 3.35 3.35 3.9  Capital replacement 1.61 1.64 1.57 1.58 1.56 1.70 1.64 1.59 1.70  Operating capital 1.3 1.5 1.2 1.2 1.2 0.8 0.5 0.6 0.8  Cher nonland capital 8.0 77 7.71 6.6 4.9 5.3 5.2 5.8 65  Land 2.6 2.6 2.5 2.4 19 1.8 1.4 1.4 1.8  Unpaid labor 1.37 1.46 1.51 1.49 1.58 1.67 1.68 1.69 1.76  Total, economic costs 12.27 12.64 12.50 12.91 12.95 13.16 12.90 12.70 14.11  Residual returns to management and risk 2.06 2.30 2.16 1.68 1.50 .60 .59 .99 -64	Interest	1.29	1.52			1.63				
Cash receipts less cash expenses	Total, fixed cash expenses	2.09	2.43	2.51	2.41	2.57	2.31	2.17	2.08	2.22
Capital replacement   1.61   1.64   1.57   1.58   1.56   1.70   1.64   1.59   1.70   Total, cash expenses and replacement   11.00   11.52   11.47   11.97   12.20   12.11   11.74   11.26   12.46	Total, cash expenses	9.39	9.88	9.90	10.39	10.64	10.41	10.10	9.67	10.76
Total, cash expenses and replacement 11.00 11.52 11.47 11.97 12.20 12.11 11.74 11.26 12.46  Net cash returns 3.33 3.42 3.19 2.62 2.25 1.65 1.75 2.43 1.01  Table 56BU.S. milk production economic costs and returns, United States, per cwt, 1972-88continued  Tem 1980 1981 1982 1983 1984 1985 1986 1987 1988    Dollars   Dollars	Cash receipts less cash expenses	4.94	5.06	4.76	4.20	3.81	3.35	3.39	4.02	2.71
Net cash returns   3.33 3.42 3.19 2.62 2.25 1.65 1.75 2.43 1.01	Capital replacement	1.61	1.64	1.57	1.58	1.56	1.70	1.64	1.59	1.70
Table 56BU.S. milk production economic costs and returns, United States, per cwt, 1972-88continued    Tem	Total, cash expenses and replacement	11.00	11.52	11.47	11.97	12.20	12.11	11.74	11.26	12.46
Total, cash receipts	Net cash returns	3.33	3.42	3.19	2.62	2.25	1.65	1.75	2.43	1.01
Total, cash receipts										
Total, cash receipts	Table 568II S milk production economic c	osts ar	nd retur	rns IIni	ited Sta	ates n	er cwt	1972-8	Aconti	nued
Total, cash receipts						_				
Total, cash receipts 14.33 14.94 14.66 14.59 14.45 13.76 13.49 13.69 13.47  Economic (full ownership) costs:  Variable cash expenses 7.30 7.45 7.39 7.98 8.07 8.10 7.93 7.59 8.54  General farm overhead .46 .54 .60 .50 .60 .53 .59 .70 .81  Taxes and insurance .34 .37 .35 .36 .34 .37 .35 .35 .39  Capital replacement 1.61 1.64 1.57 1.58 1.56 1.70 1.64 1.59 1.70  Operating capital .13 .15 .12 .12 .12 .08 .05 .06 .08  Other nonland capital .80 .77 .71 .64 .49 .53 .52 .58 .65  Land .26 .26 .25 .24 .19 .18 .14 .14 .18  Unpaid labor .1.37 1.46 1.51 1.49 1.58 1.67 1.68 1.69 1.76  Total, economic costs 12.27 12.64 12.50 12.91 12.95 13.16 12.90 12.70 14.11  Residual returns to management and risk 2.06 2.30 2.16 1.68 1.50 .60 .59 .9964										
Economic (full ownership) costs:  Variable cash expenses 7.30 7.45 7.39 7.98 8.07 8.10 7.93 7.59 8.54  General farm overhead .46 .54 .60 .50 .60 .53 .59 .70 .81  Taxes and insurance .34 .37 .35 .36 .34 .37 .35 .35 .39  Capital replacement 1.61 1.64 1.57 1.58 1.56 1.70 1.64 1.59 1.70  Operating capital .13 .15 .12 .12 .12 .08 .05 .06 .08  Other nonland capital .80 .77 .71 .64 .49 .53 .52 .58 .65  Land .26 .26 .25 .24 .19 .18 .14 .14 .18  Unpaid labor .1.37 1.46 1.51 1.49 1.58 1.67 1.68 1.69 1.76  Total, economic costs 12.27 12.64 12.50 12.91 12.95 13.16 12.90 12.70 14.11  Residual returns to management and risk 2.06 2.30 2.16 1.68 1.50 .60 .59 .9964										
Economic (full ownership) costs:  Variable cash expenses 7.30 7.45 7.39 7.98 8.07 8.10 7.93 7.59 8.54  General farm overhead .46 .54 .60 .50 .60 .53 .59 .70 .81  Taxes and insurance .34 .37 .35 .36 .34 .37 .35 .35 .39  Capital replacement 1.61 1.64 1.57 1.58 1.56 1.70 1.64 1.59 1.70  Operating capital .13 .15 .12 .12 .12 .08 .05 .06 .08  Other nonland capital .80 .77 .71 .64 .49 .53 .52 .58 .65  Land .26 .26 .25 .24 .19 .18 .14 .14 .18  Unpaid labor .1.37 1.46 1.51 1.49 1.58 1.67 1.68 1.69 1.76  Total, economic costs 12.27 12.64 12.50 12.91 12.95 13.16 12.90 12.70 14.11  Residual returns to management and risk 2.06 2.30 2.16 1.68 1.50 .60 .59 .9964										
Variable cash expenses       7.30       7.45       7.39       7.98       8.07       8.10       7.93       7.59       8.54         General farm overhead       .46       .54       .60       .50       .60       .53       .59       .70       .81         Taxes and insurance       .34       .37       .35       .36       .34       .37       .35       .35       .39         Capital replacement       1.61       1.64       1.57       1.58       1.56       1.70       1.64       1.59       1.70         Operating capital       .13       .15       .12       .12       .12       .08       .05       .06       .08         Other nonland capital       .80       .77       .71       .64       .49       .53       .52       .58       .65         Land       .26       .26       .25       .24       .19       .18       .14       .14       .18         Unpaid labor       1.37       1.46       1.51       1.49       1.58       1.67       1.68       1.69       1.76         Total, economic costs       12.27       12.64       12.50       12.91       12.95       13.16       12.90       12.70		******			******	*****			***==554	
General farm overhead       .46       .54       .60       .50       .60       .53       .59       .70       .81         Taxes and insurance       .34       .37       .35       .36       .34       .37       .35       .39         Capital replacement       1.61       1.64       1.57       1.58       1.56       1.70       1.64       1.59       1.70         Operating capital       .13       .15       .12       .12       .12       .08       .05       .06       .08         Other nonland capital       .80       .77       .71       .64       .49       .53       .52       .58       .65         Land       .26       .26       .25       .24       .19       .18       .14       .14       .18         Unpaid labor       1.37       1.46       1.51       1.49       1.58       1.67       1.68       1.69       1.76         Total, economic costs       12.27       12.64       12.50       12.91       12.95       13.16       12.90       12.70       14.11         Residual returns to management and risk       2.06       2.30       2.16       1.68       1.50       .60       .59       .99		7.30	7.45	7.39	7.98	8.07	8.10	7.93	7.59	8.54
Taxes and insurance .34 .37 .35 .36 .34 .37 .35 .35 .39 Capital replacement 1.61 1.64 1.57 1.58 1.56 1.70 1.64 1.59 1.70 Operating capital .13 .15 .12 .12 .12 .08 .05 .06 .08 Other nonland capital .80 .77 .71 .64 .49 .53 .52 .58 .65 Land .26 .26 .25 .24 .19 .18 .14 .14 .18 Unpaid labor .1.37 1.46 1.51 1.49 1.58 1.67 1.68 1.69 1.76 Total, economic costs 12.27 12.64 12.50 12.91 12.95 13.16 12.90 12.70 14.11  Residual returns to management and risk 2.06 2.30 2.16 1.68 1.50 .60 .59 .9964										
Capital replacement       1.61       1.64       1.57       1.58       1.56       1.70       1.64       1.59       1.70         Operating capital       .13       .15       .12       .12       .12       .08       .05       .06       .08         Other nonland capital       .80       .77       .71       .64       .49       .53       .52       .58       .65         Land       .26       .26       .25       .24       .19       .18       .14       .14       .18         Unpaid labor       1.37       1.46       1.51       1.49       1.58       1.67       1.68       1.69       1.76         Total, economic costs       12.27       12.64       12.50       12.91       12.95       13.16       12.90       12.70       14.11    Residual returns to management and risk          2.06       2.30       2.16       1.68       1.50       .60       .59       .99      64										
Other nonland capital       .80       .77       .71       .64       .49       .53       .52       .58       .65         Land       .26       .26       .25       .24       .19       .18       .14       .14       .18         Unpaid labor       1.37       1.46       1.51       1.49       1.58       1.67       1.68       1.69       1.76         Total, economic costs       12.27       12.64       12.50       12.91       12.95       13.16       12.90       12.70       14.11         Residual returns to management and risk       2.06       2.30       2.16       1.68       1.50       .60       .59       .99      64	Capital replacement		1.64	1.57	1.58	1.56	1.70	1.64	1.59	
Land .26 .26 .25 .24 .19 .18 .14 .14 .18 Unpaid labor 1.37 1.46 1.51 1.49 1.58 1.67 1.68 1.69 1.76 Total, economic costs 12.27 12.64 12.50 12.91 12.95 13.16 12.90 12.70 14.11  Residual returns to management and risk 2.06 2.30 2.16 1.68 1.50 .60 .59 .9964	•									
Unpaid labor 1.37 1.46 1.51 1.49 1.58 1.67 1.68 1.69 1.76 Total, economic costs 12.27 12.64 12.50 12.91 12.95 13.16 12.90 12.70 14.11  Residual returns to management and risk 2.06 2.30 2.16 1.68 1.50 .60 .59 .9964	The state of the s									
Total, economic costs 12.27 12.64 12.50 12.91 12.95 13.16 12.90 12.70 14.11  Residual returns to management and risk 2.06 2.30 2.16 1.68 1.50 .60 .59 .9964										
Residual returns to management and risk 2.06 2.30 2.16 1.68 1.50 .60 .59 .9964	• ·									
	Total, economic costs	12.27	12.64	12.50	12.91	12.95	13.16	12.90	12.70	14.11
	Residual returns to management and risk	2.06	2.30							
						*****	======			

Table 57A--U.S. fed cattle production cash costs and returns, all sizes of operation, 1972-87

Item	1972	1973	1974	1975	1976	1977	1978	1979		
	Dollars per cwt									
Cash receipts:										
Fed beef	35.76	44.20	38.97	41.79	38.97	40.18	52.40	67.85		
Total			38.97				52.40	67.85		
Cash expenses:				======		******				
Feeders										
Feeder cattle	22.58	28.93	20.60	18.41	21.48	21.92	27.84	44.67		
Feed										
Haylage	.03	.04	.06	.06	.07	.06	.05	.05		
Silage	, 62	.77	1.04	1.07	1.22	1.08	.94	.86		
Dry grain & concentrates		10.90			14.33		9.36	10.61		
Protein supplements	1.33	2.90	2.15	1.76	1.76	2.15	1.95	2.12		
Legume hay	.39	.49	.66	.68	. 78	.69	.60	.72		
Other roughages	. 13	.16	.21	.22	.25	. 22	. 20	. 23		
Pasture	0	0	0	0	0	0	0	0		
Crop residue	0	0	0	0	0	0	0	0		
Total feed costs	9.33	15.26	20.76	19.20	18.41	15.19	13.10	14.59		
Other	0.00	15,20	20.70	10.20	10, 11	10.10	20120			
Veterinary and medicine	. 29	.31	.34	.37	.39	.38	.41	. 44		
Livestock hauling	.10	. 11	.12	.13	.13	.13	.14	.12		
Marketing	.05	.06	.06	.07	.07	.07	.08	.08		
Bedding	.03	.03	.04	.04	. 04	.04	.04	.04		
Fuel, lube, and electricity	. 21	. 22	.30	.33	.35	.38	.40	.49		
Machinery and building repairs	. 25	. 26	.36	.40	.43	.46	.50	.49		
Hired labor	.23	.30	.35	.37	.43	. 44	. 47	. 52		
Miscellaneous	.29	.31	.38	.45	. 47		. 53	.60		
Manure credit	07			07			07	08		
Total, variable cash expenses	33.33			39.71			43.44	61.96		
Total, Variable Cash expenses	33.33	43.72	43.24	39.71	42.11	55.44	45.44	01,90		
General farm overhead	. 24	. 59	. 50	. 45	.48	.62	.60	.76		
Taxes and insurance	. 12	.15	. 14	. 15	. 14	. 14	.17	. 16		
Hired management	.07	.09	.08	.08	.08	.08	.08	. 10		
Interest	2.07	2.56	2.26	2.42	2.26	2.33	3,12	4.32		
Total, fixed cash expenses	2.51	3.39	2.97	3.10	2.95	3.17	3.97	5.34		
Total, cash expenses	35.83	49.11	46.21	42.81	45.06	42.61	47.41	67.30		
Cash receipts less cash expenses	07	-4.91	-7.24	-1.02	-6.09	-2.43	4.99	. 55		
Capital replacement	. 93	.98	1.08	1.17	1.23		1.34	1.57		
Total, cash expenses and replacement			47.29				48.75			
Net cash returns	-1.00	~5.89	-8.31	-2.19	-7.32	-3.64	3,65	-1.02		

Table 57B--U.S. fed cattle production economic costs and returns, all sizes of operation, 1972-87

Item	1972	1973	1974	1975	1976	1977	1978	1979
				Dollar	s per c	:wt		
Total, cash receipts	35.76	44.20	38.97	41.79	38.97	40.18	52.40	67.85
Economic (full ownership) costs:								
Variable cash expenses	33.33	45.72	43.24	39.71	42.11	39.44	43.44	61.96
General farm overhead	. 24	. 59	. 50	.45	. 48	.62	.60	.76
Taxes and insurance	. 12	.15	. 14	.15	. 14	.14	. 17	. 16
Capital replacement	. 93	.98	1.08	1.17	1.23	1.21	1.34	1.57
Hired management	.07	.09	.08	.08	.08	.08	.08	.10
Operating capital	.31	.66	.69	.49	.45	. 44	.67	1,26
Other nonland capital	.38	.40	. 44	.48	. 50	.49	.49	. 42
Land	.03	.04	.05	.06	.07	.08	.08	.10
Unpaid labor	. 63	. 66	.73	. 80	. 84	. 82	. 90	.81
Total, economic costs	36.05	49.29	46.94	43.38	45.89	43.32	47.77	67.14
Residual returns to management and risk	29	-5.09	-7.97	-1.59	-6.92	-3.14	4.63	. 71

Continued --

Item	1980	1981	1982	1983	1984	1985	1986	1987
Contraction of				Dollars	per cw	<u>rt</u>		
Cash receipts: Fed beef								
Total	66.20 66.20			62.12			58.42 58.42	
***************************************		03,41	03.02	02.13 =======	64.93	J9.49	38.42	65.44
Cash expenses:								
Feeders								
Feeder cattle	47.33	42.90	39.05	37.62	38.53	38.90	36.17	43.99
Feed								
Haylage	.05	.06	.06	.07	.06	.05	.04	.04
Silage	.96	1.22	. 94	.85	.94	. 92	.93	.90
Dry grain & concentrates	12.13	13.51	10.98	13.60	14.00	11.54	9.53	7.57
Protein supplements	2.22	2.38	2.25	2.37	2.00	2.07	2.61	2.56
Legume hay	.79	.98	.96	1.04	1.25	1.02	.91	. 93
Other roughages	. 27	.39	.41	.43	. 64	. 55	.00	.00
Pasture	.00	.00	.00	.00	.00	.00	.00	.00
Crop residue	.00	.00	.00	.00	.00	.00	.00	.00
Total feed costs	16.42	18.54	15.60	18.36	18.89	16.15	14.02	12.00
Other-								
Veterinary and medicine	. 47	.51	.49	.51	. 51	. 52	. 55	. 57
Livestock hauling	. 15	. 17	. 16	. 15	. 14	. 15	. 24	. 24
Marketing	.08	.08	.08	.07	.06	. 06	.06	.06
Bedding	. 04	.06	.05	. 05	.04	. 0.5	.06	. 07
Fuel, lube, and electricity  Machinery and building repairs	.67	. 76	.72	. 67	. 51	. 48	.49	.48
Hired labor	. 53	. 57	. 56	. 58	. 51	. 55	. 56	. 58
Miscellaneous	. 56 . 75	.60	. 63	. 64	.75	.76	.80	.74
Manure credit	10	. 84 11	.93	.97 10	1.01	1.00	. 89	. 90
Total, variable cash expenses	66.90		58.16	59.52	60.87	08 58.54	07 53.77	~.06 59.57
rocal, valiable cash expenses	00.90	04.92	30.16	39,32	60.67	20.24	23.77	39.37
General farm overhead	. 90	. 93	. 99	.98	1.05	. 93	1.11	1.41
Taxes and insurance	. 17	. 17	.18	.18	.16	.16	. 17	. 18
Hired management	.11	. 12	.13	. 14	. 11	. 11	. 13	. 12
Interest	4.69	5.08	5.40	5.01	4.81	4.28	5.09	5.77
Total, fixed cash expenses	5.87	6.30	6.70	6.31	6.13	5.48	6.50	7.48
Total, cash expenses	72.77	71.22	64.86	65.83	67.00	64.02	60.27	67.05
Cash receipts less cash expenses		-7.81			-2.05		-1.85	-1.61
Capital replacement	1.12	1.23	1.19	1.21	1.07	1.11	1.17	1.22
Total, cash expenses and replacement	73.89	72.45	66.05	67.04	68.07	65.13	61.44	68.27
Net cash returns	-7.69	-9.04	-2.43	-4.92	-3.12	-5.64	-3.02	-2.83

Table 57B--U.S. fed cattle production economic costs and returns, all sizes of operation, 1972-87--continued

Item	1980	1981	1982	1983	1984	1985	1986	1987	
	<u>Dollars per cwt</u>								
Total, cash receipts	66.20	63.41	.63.62	62.12	64.95	59.49	58.42	65.44	
Economic (full ownership) costs:									
Variable cash expenses	66.90	64.92	58.16	59.52	60.87	58.54	53.77	59.57	
General farm overhead	. 90	, 93	, 99	. 98	1.05	. 93	1.11	1.41	
Taxes and insurance	.17	.17	.18	.18	.16	.16	. 17	. 18	
Capital replacement	1.12	1,23	1.19	1.21	1.07	1.11	1.17	1.22	
Hired management	.11	. 12	. 13	. 14	. 11	. 11	. 13	.12	
Operating capital	1.49	1,81	1.31	1.06	1.21	. 91	. 59	.73	
Other nonland capital	. 41	.38	.34	.31	. 23	. 43	.23	.27	
Land	.11	. 12	. 12	. 11	.08	.07	. 04	. 04	
Unpaid labor	. 58	, 60	. 55	. 52	.47	1.39	. 55	.60	
Total, economic costs	71.79	70.28	62.96	64.02	65.26	63.65	57.76	64.14	
Residual returns to management and risk	-5.59	-6.87	.66	-1.90	31	-4.16	.66	1.30	

Item	1972	1973	1974	1975	1976	1977	1978	1979
			]	Dollars j	per cow			
Cash receipts:								
Steer calves	44.78	57.51			39.52	43.46 25.72	77.16 45.66	
Heifer calves	26.50 29.06	34.04 37.32			23.38			
Yearling steers Yearling heifers	18.25	23.44						
Cull cows	21.80	22.11			15.79			
Total	140.39	174.42	126.75	119.03	134.73	146.91		
Cash expenses:	======:					======		
Feed								
Grain	3.44	5.56			7.32			
Silage	1.34	2.16			2.85			
Protein supplements	4.25	9.24			5.58		9.21	
Salt and minerals	1.52	1.63			2.25			
Hay	27.13	31.00			47.21			
Pasture	24.61				29.84			
Public grazing	. 63	. 73			1.37			
Crop residue (purchased)	.06	.06			.06		.07 85.65	
Total feed costs Other	62.98	78.64	86.99	94.23	96.48	03.01	05.03	50.38
Veterinary and medicine	3.85	4.01	3.82	3.98	3.79	3.94	4.45	4.54
Livestock hauling	.95				.94			
Marketing	2.48	2.63						
Custom feed mixing	.29	.30			. 29			
Fuel, lube, electricity	5.52	5.83			9.52		10.73	
Machinery and building repairs	9.34	9.88			12.58		14.62	
Hired labor	4.99	5.46			7.62		9.00	
Total, variable cash expenses	90.40	107.79			133.66			
General farm overhead	4.10	5.55	4.96	5.53	6.54	7.59	13.53	22.06
Taxes and insurance	11.45	11.76						
Interest	8.13	11.82	10.15	11.29	17.08	18.10	30.30	
Total, fixed cash expenses	23.68	29.13	27.48	30.10	39.71	40.96	59.98	90.33
Total, cash expenses	114.08	136.92	148.38	161.79	173.37	164.31	188.85	231.16
Cash receipts less cash expenses	26.31	37.50	-21.63	-42.76	-38.64	-17.40	55.70	121.14
Capital replacement	26.65	28.16			35.21	34.59	37.39	46.74
Total, cash expenses and replacement	140.73	165.08	179.02	195.28	208.58	198.90	226.24	277.90
Net cash returns	34	9.34	-52.27	-76.25	-73.85	-51.99	18.31	74.40
Table 58BU.S. cow-calf production econor	nic cost:	s and re	turns, a	ll sizes	of oper	ation, 1		tinued
						1977		
				ars per				
Total, cash receipts						146.91 ======		
Economic (full ownership) costs:								
Variable cash expenses	90.40		120.90					140.83
General farm overhead	4.10				6.54			
Taxes and insurance	11.45			13.28		15.27		
Capital replacement	26.65		30.64					
Operating capital	2.02			4.03				7.04
Other nonland capital	28.67							
Land	26.93		45.00					
Unpaid labor	18.21							
Total, economic costs	208.43	239.72	2/5.64	303.95	323.13	326.97	354.64	408.41
Residual returns to management and risk							-110.09	-56.11

							•	
Item	1980	1981	1982	1983	1984	1985	1986	1987
				Dollars	per cov			
Cash receipts:				DULLUL	<u> </u>	<b>.</b>		
Steer calves	90.02	74.86	74.22	74.62	76.37	77.71	78.17	94.86
Heifer calves	53.27	44.02	44.25	43.80	44.36	46.22	47.81	59.82
Yearling steers	78.40	67.72	64.73	61.23	65.89	61.52	66.69	79.68
Yearling heifers	49.24	44.08	42.19	38.89	41.47	40.30	43.97	54.42
Cull cows	35.98	29.96	30.10	28.64	30.69	28.64	28.83	34.61
Total	306.91	260.64	255.49	247.18	258.78	254.39	265.47	323,39
Cash expenses:		********		*******				=45 <b>=</b>
Feed								
Grain	10 10	0.40						
Silage	10.12	9.42	8.31	10.70	11.20	9.39	7.62	6.54
Protein supplements	4.58	5.51	4.66	6.20	5.83	6.04	5.55	5.09
Salt and minerals	17.28	18.21	17.26	18.13	18.69	16.00	15.83	15.97
Hay	2.13	2.41	2.40	2.52	2.62	2.69	1.96	1.98
Pasture	32.03	40.23	41.47			42.96	33.34	31.77
Public grazing	35.81	37.40	39.02	36.45	39.30	36.44	34.47	31.78
	.68	.76	.75	.65	.71	. 66	.69	.71
Crop residue (purchased)	.07	.07	.07	.08	.08	.07	.09	. 07
Total feed costs	102.70	114.01	113.94	113.72	121.77	114.25	99.55	93.91
Other								
Veterinary and medicine	5.05	5.52	5.91	6.11	6.31	6.38	6.60	6.72
Livestock hauling	1.40	1.75	1.70	1.74	1.80	1.85	1.86	1.85
Marketing	3.81	3.86	3.90	4.00	4.10	4.21	4.16	4.24
Custom feed mixing	. 42	. 44	. 49	. 47	. 48	.49	. 48	. 49
Fuel, lube, electricity	19.23	21.72	21.30	19.54	16.58	16.00	11.90	12.76
Machinery and building repairs	17.60	19.31	21.17	22.09	21.58	22.51	21.71	21.83
Hired labor	11.72	13.41	13.02	13.48	13.72	13.98	14.40	14.47
Total, variable cash expenses	161.93	180.02	181.43	181.15	186.34	179.67	160.66	156.27
General farm overhead	21.94	20.68	19.47	19.26	24.13	22.43	29.20	38.81
Taxes and insurance	20.52	19.62	20.87	23.43	19.54	19.04	24.06	29.04
Interest	47.50	44.86	45.43	44.96	46.52	44.30	39.82	42.04
Total, fixed cash expenses	89.96	85.16	85.77	87.65	90.19	85.77	93.08	109.89
Total, cash expenses	251.89	265.18	267.20	268.80	276.53	265.44	253.74	266.16
Cash receipts less cash expenses	55.02	-4.54	-11.71	-21.62	-17.75	-11.05	11.73	57.23
Capital replacement	54.19	59.22	62.88	64.28	64.46	64.53	63.37	64.82
Total, cash expenses and replacement		324.40	330.08			329.97	317.11	330.98
Net cash returns	. 83	-63.76	-74.59	-85.90	-82.21	-75.58	-51.64	-7.59

Table 58B--U.S. cow-calf production economic costs and returns, all sizes of operation, 1972-87--continued

Item	1980	1981	1982	1983	1984	1985	1986	1987
				Dollar	s per co	<u>~</u>		
Total, cash receipts	306.91	260.64	255.49	247.18	258.78	254.39	265.47	323.39
Economic (full ownership) costs:								
Variable cash expenses	161.93	180.02	181.43	181.15	186.34	179.67	160.66	156.27
General farm overhead	21.94	20.68	19.47	19.26	24.13	22.43	29.20	38.81
Taxes and insurance	20.52	19.62	20.87	23.43	19.54	19.04	24.06	29.04
Capital replacement	54.19	59.22	62.88	64.28	64.46	64.53	63.37	64.82
Operating capital	9.21	12.40	10.05	7.93	9.13	6.88	4.34	4.73
Other nonland capital	34.17	32.29	31.55	29.67	23.61	22.36	23.05	26.79
Land	92.95	94.57	92.86	83.72	66.15	54.86	56.21	65.50
Unpaid labor	65.29	72.11	71.71	74.68	76.73	78.27	82.56	82.30
Total, economic costs	460.20	490.91	490.82	484.12	470.09	448.04	443.45	468.26
Residual returns to management and risk	-153.29	-230.27	-235.33	-236.94	-211.31	-193.65	-177.98	-144.87

Table 59A--U.S. farrow-to-finish production cash costs and returns, all sizes of operation, 1972-87

				Dollar	s per c	<u>wt</u>		
Cash receipts:	0. 10	20.40	01 01		40.10	27.00	42.01	20.
Slaughter hogs	1.73			3.25	2.89	37.20 2.68	3.30	2.
Cull sows Total						39.88		
Cash expenses:								
Feed								
Grain	7.42			17.13			13.28	15.
Protein supplements	6.94		11.14	9.12	9.35		10.56	11.
Pasture	.02	.03	.03	26.28	.03	.03	.03 23.87	26.
Total feed costs Other	14.55	27.12	29.09	20,20	23.23	24.03	23.07	20.
Veterinary and medicine	. 26	.27	.30	.41	.40	.40	.41	
Livestock hauling	.04	. 04	.05	.06		. 07	.08	
Marketing	.19	.21	.23	.25	.29	.28	.33	
Bedding	.05	.06	.09	.09	.08	.09	.09	
Custom feed mixing	.00	.00	.00	.00	.00	.00	.00	
Fuel, lube, and electricity	.51	. 54	.74	. 83	.88	. 94	. 99	1.
Machinery and building repairs	1.06	1.13	1.25	1.37		1.54	1.60	1.
Hired labor	.42	. 46	. 53	. 57	. 63	. 67	.72	
Manure credit Total, variable cash expenses	10 16.83	10 29.73	11 32.78	12 29.73	14 29.00	14 27.94	14 27.95	31.
rotar, variable cash expenses	10.03	29.73	32.70	25.73	25.00	27.34	27.53	31.
eneral farm overhead	. 87	. 92	1.03	1.12	1.27	1.26	1.59	1.
axes and insurance	.39	. 40	.42	.45	. 54	. 52	. 56	
nterest	1.79	2.10	2.48	2.93	4.23	3.81	4 . 52	4.
Total, fixed cash expenses	3.05	3.42	3.92	4.51	6.04	5.59	6.67	6.
Total, cash expenses	19.88	33.15	36.70	34.24	35.04	33.53	34.62	38.
ash receipts less cash expenses	6.00	6.00	-2.66	12.78	8.01	6.35	12.49	4.
	2.66		2.29	4.20			5.12	5.
Total, cash expenses and replacement	22.55	36.14	38.99	38.44	40.14	38.20	39.74	44.
et cash returns	3.34	3.01	-4.95	8.58	2.91	1.68	7.37	-1.
							Conti	 nued
able 59BU.S. farrow-to-finish product 1972-87	ion eco	nomic c	osts an	d retur	ns, all	sizes		
1972-87	1972	1973	1974	 1975	1976	1977	of oper	atio
1972-87	1972	1973	1974	1975	1976	1977	of oper	atio
1972-87  Item  otal, cash receipts	1972	1973 	1974	1975  Dollar 47.02	1976 s per c	1977  <u>wt</u> 39.88	of oper 1978	197
1972-87  Item  otal, cash receipts	1972	1973 	1974	1975  Dollar 47.02	1976 s per c	1977  <u>wt</u> 39.88	of oper 1978	197
1972-87  Item  otal, cash receipts  conomic (full ownership) costs:	1972  25.89	1973  39.15	1974 	1975  Dollar 47.02	1976 	1977 	of oper 1978 47.11	197
1972-87  Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses	1972 25.89 ======	1973  39.15 	1974  34.04  32.78	1975  Dollar 47.02 	1976 s per c 43.05	1977 wt 39.88 	of oper  1978  47.11  27.95	197  42. ====
1972-87  Item  otal, cash receipts  conomic (full ownership) costs:	1972  25.89	1973  39.15  29.73 .92	34.04 32.78 1.03	1975  Dollar 47.02	1976 	1977 	of oper  1978  47.11  27.95 1.59	42. ====
1972-87  Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses  General farm overhead	1972 25.89 ======= 16.83 .87	1973 39.15 ====== 29.73 .92 .40	34.04 ====== 32.78 1.03 .42	1975 Dollar 47.02 ====== 29.73 1.12 .45	1976 	1977 39.88 ====== 27.94 1.26 .52	of oper  1978  47.11  27.95 1.59 .56	42. ====
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance	1972 25.89 ====================================	1973 39.15 ======= 29.73 .92 .40 2.99	34.04 ====== 32.78 1.03 .42	1975 Dollar 47.02 29.73 1.12 .45 4.20	1976 	1977 	of oper  1978  47.11  27.95 1.59 .56	42. ===== 31. 1.
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital	25.89 ====================================	1973 39.15 ====== 29.73 .92 .40 2.99 .53 1.47	34.04 32.78 1.03 .42 2.29 .65 1.59	1975 Dollar 47.02 29.73 1.12 .45 4.20 .46 1.74	1976 	1977 wt 39.88 27.94 1.26 .52 4.67 .38 1.80	of oper  1978   47.11   27.95  1.59  .56  5.12  .53  1.75	197  42. 31.
Item  Otal, cash receipts	1972 25.89 ====================================	1973 39.15 ======= 29.73 .92 .40 2.99 .53 1.47 .05	34.04 32.78 1.03 .42 2.29 .65 1.59 .07	1975 Dollar 47.02 ====== 29.73 1.12 .45 4.20 .46 1.74 .09	1976 	1977 wt 39.88 27.94 1.26 .52 4.67 .38 1.80 .11	of oper  1978   47.11   27.95  1.59  .56  5.12  .53  1.75  .12	197 42. 31
Item  otal, cash receipts  conomic (full ownership) costs: Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land Unpaid labor	25.89 25.89 16.83 .87 .39 2.66 .19 1.39 .04 2.21	1973 39.15 ======= 29.73 .92 .40 2.99 .53 1.47 .05 2.42	34.04 32.78 1.03 .42 2.29 .65 1.59 .07 2.77	1975 Dollar 47.02 ====== 29.73 1.12 .45 4.20 .46 1.74 .09 2.98	1976 	1977 wt 39.88 27.94 1.26 .52 4.67 .38 1.80 .11 3.50	of oper  1978  47.11  ======  27.95 1.59 .56 5.12 .53 1.75 .12 3.74	42. 31.
Item  otal, cash receipts  conomic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital Land	25.89 25.89 16.83 .87 .39 2.66 .19 1.39 .04 2.21	1973 39.15 ======= 29.73 .92 .40 2.99 .53 1.47 .05 2.42	34.04 32.78 1.03 .42 2.29 .65 1.59 .07 2.77	1975 Dollar 47.02 ====== 29.73 1.12 .45 4.20 .46 1.74 .09 2.98	1976 	1977 wt 39.88 27.94 1.26 .52 4.67 .38 1.80 .11	of oper  1978  47.11  ======  27.95 1.59 .56 5.12 .53 1.75 .12 3.74	42. 31.

Table 59A--U.S. farrow-to-finish production cash costs and returns, all sizes of operation, 1972-87--continued

					1984	1985	1986	1987
					s per c	:wt		
Cash receipts:								
						42.10		
Cull sows	1.98					2.12		
Total	39.60	43.87	54.47	46.92	48.14	44.22	50.46	50.8
Cash expenses:								
Feed								
Grain	16.94					15.69		
Protein supplements	11.68		11.40			9.13		10.
Pasture Total feed costs	. 05		. 05		. 04		.03	• 1
Other	28.67	30.64	26.28	31.08	30.52	24.85	22.06	20.
		50						
Veterinary and medicine Livestock hauling	. 47	. 50	.51			. 53		•
Marketing	.10	. 12				. 13		
Bedding	.30		.36			. 33	. 35	
Custom feed mixing	.12	. 18		. 15	. 15			
Fuel, lube, and electricity	0	0	0	0	0	0	0	0
the state of the s	1.77	2.06		1.96		1.74		1.
Machinery and building repairs Hired labor	2.06	2.25						2.
Manure credit	. 85		. 98			1.34		1.3
	19	20		19		20		
Total, variable cash expenses	34.15	36.87	32.61	37.52	36.86	31.25	28.23	26.
General farm overhead	1.72	2.12	2.66	2.47	2.37	2.14	3.53	4.
Taxes and insurance	.61	. 67	. 69	. 78	. 70	. 83	. 73	
Interest	4.75	5.85	8.28	5.65	7.00	5.41	6.05	3.
Total, fixed cash expenses	7.08	8.64	11.63	8.90	10.07	8.38	10.31	8.3
Total, cash expenses	41.23	45.51	44.24	46.42	46.93	39.63	38.54	34.6
Cash receipts less cash expenses	-1.63	-1.64	10.23	. 50	1.21	4.59	11.92	16.
Capital replacement	5.15	5.59	5.81	6.19	5.68	5.65	5.58	5.
Total, cash expenses and replacement	46.38	51.10	50.05	52.61	52.61	45.28	44.12	40.
let cash returns	-6.78	-7.23	4.42	-5.69	-4.47	-1.06	6.34	10.
1972-87continued								
	1980	1981	1982	1983	1984	1985	1986	1987
1972-87continued  Item	1980	1981	1982	 1983	1984	1985	1986	198
1972-87continued  Item  . Cotal, cash receipts	1980	1981	1982 	1983  Dollars 46.92	1984  per cw  48.14	1985 <u>t</u> 44.22	1986	198
1972-87continued  Item  . Cotal, cash receipts	1980	1981	1982	1983 	1984 per cw	1985 <u>t</u> 44.22	1986	198
1972-87continued  Item  . Cotal, cash receipts	1980 39.60	1981 	1982  54.47 	1983 	1984  per cw  48.14	1985 44.22 31.25	1986	198
1972-87continued  Item  . Cotal, cash receipts  Conomic (full ownership) costs:	39.60 34.15 1.72	1981  43.87  36.87 2.12	1982  54.47  32.61 2.66	1983 	1984  per cw  48.14  36.86 2.37	1985 44.22 31.25 2.14	1986 	198 50.3 26.3 4.6
Item  Otal, cash receipts  Conomic (full ownership) costs:  Variable cash expenses	39.60 34.15 1.72 .61	1981  43.87  36.87 2.12 .67	1982  54.47  32.61 2.66 .69	1983 	1984 	1985 44.22 31.25 2.14	1986 	50.
Item  Cotal, cash receipts  Conomic (full ownership) costs:  Variable cash expenses  General farm overhead	39.60 34.15 1.72 .61 5.15	1981  43.87  36.87 2.12 .67 5.59	1982  54.47  32.61 2.66 .69 5.81	1983 	1984 	1985 44.22 31.25 2.14 .83 5.65	1986 	198 50 26 4 5
Item  Cotal, cash receipts  Conomic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance	39.60 34.15 1.72 .61 5.15	1981  43.87  36.87 2.12 .67 5.59 1.27	1982  54.47  32.61 2.66 .69 5.81 .90	1983 	1984 	1985 44.22 31.25 2.14 .83 5.65 .60	1986 	198 50.2 26.2 4.4
Item  Cotal, cash receipts  Conomic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement	39.60 34.15 1.72 .61 5.15	1981  43.87  36.87 2.12 .67 5.59 1.27 1.60	1982  54.47  32.61 2.66 .69 5.81 .90 1.57	1983 	1984 	1985 44.22 31.25 2.14 .83 5.65 .60 1.11	1986 	198 50. 26. 4.
Item  Cotal, cash receipts  Conomic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital	39.60 34.15 1.72 .61 5.15 .97 1.70	36.87 2.12 .67 5.59 1.27 1.60	1982  32.61 2.66 .69 5.81 .90 1.57	1983 	1984 per cw 48.14 36.86 2.37 .70 5.68 .90 1.17 .10	31.25 2.14 .83 5.65 .60 1.11	1986 	198 50 26 4 5
Item  Cotal, cash receipts  Conomic (full ownership) costs:  Variable cash expenses General farm overhead Taxes and insurance Capital replacement Operating capital Other nonland capital	39.60 34.15 1.72 .61 5.15 .97 1.70	36.87 2.12 .67 5.59 1.27 1.60	1982  32.61 2.66 .69 5.81 .90 1.57	1983 	1984 per cw 48.14 36.86 2.37 .70 5.68 .90 1.17 .10	1985 44.22 31.25 2.14 .83 5.65 .60 1.11	1986 	198 50 26 4 5
Item  Item  Cotal, cash receipts  Conomic (full ownership) costs:  Variable cash expenses  General farm overhead  Taxes and insurance  Capital replacement  Operating capital  Other nonland capital  Land	39.60 34.15 1.72 .61 5.15 .97 1.70 .15 4.41	36.87 2.12 .67 5.59 1.27 1.60 .15	1982 54.47 32.61 2.66 .69 5.81 .90 1.57 .14 4.48	1983 	1984 per cw 48.14 36.86 2.37 .70 5.68 .90 1.17 .10 4.50	31.25 2.14 .83 5.65 .60 1.11	1986 	1983 50.4 26.2 4.4 5.3 1.2 4.4

Table 60A--U.S. feeder pig production cash costs and returns, all sizes of operation,

Item	1972	1973	1974	1975	1976	1977	1978	1979
				Dollar	s per c	<u>wt</u>		
Cash receipts:								
Feeder pigs	39.88	60.22	52.52	72.26	58.87	61.42	78.83	58.4
Cull sows	4.57	7.06	5.87	8.57	6.78	7.07	8.78	7.5
Total	44.45			80.83			87.61	65.9
Cash expenses:								
Feed								
Grain	9.35	15.11	23.35	21.59	19.51	16.23	16.99	19.0
Protein supplements	9.32	20.26	14.94	12.24	12.90	15.00	14.24	15.8
Pasture	. 14	.16	. 17	. 17	.21	. 17	.18	. 2
Total feed costs	18.81	35.54	38.46	34.00	32,62	31.40	31.41	35.1
Other								
Veterinary and medicine	. 90	. 92	1.05	1.41	1.37	1.38	1.41	1.5
Livestock hauling	.07	.08	.09	.10	.11	. 12	. 13	. 1
Marketing	. 88	. 93	1.03	1.13	1.29	1.27	1.46	1.5
Bedding	.13	. 16	.21	. 22	. 20	. 22	. 24	.:
Custom feed mixing	.72	.77	.85	. 93	. 97	1.05	1.13	1.2
Fuel, lube, and electricity	1.90	2.01	2.78	3.10	3.27	3.52	3.69	4.1
Machinery and building repairs	2.22	2.35	2.61	2.87	3.22	3.22	3.34	3.3
Hired labor	. 83	. 91	1.04	1.12	1.23	1.32	1.41	1.5
Manure credit	07	07	08	09	11	10	10	:
Total, variable cash expenses	26.39	43.58	48.04	44.78	44.17	43.40	44.12	49.5
General farm overhead	1.42	1.50	1.67	1.83	1.85	2,06	2.82	2.4
Taxes and insurance	1.02	1.05	1.10	1.18	1.20	1.36	1.47	1.7
Interest	3.08	3,61	4.26	5.05	6.47	6.56	8.44	7.0
Total, fixed cash expenses	5.52	6.16	7.03	8.07	9.52	9.98	12.73	11.1
Total, cash expenses	31.92	49.74	55.07	52.85	53.69	53.38	56.85	60.
Cash receipts less cash expenses	12.54	17.54	3.32	27.98	11.96	15.11	30.76	5.2
Capital replacement	5.81	6.52	4.99	9.17	9.47	10.19	11.26	13.3
Total, cash expenses and replacement	37.72	56.26	60.06	62.02	63.16	63.57	68.11	74.
Net cash receipts	6.73	11.02	-1.67	18.81	2.49	4.92	19.50	-8.

Table 60B--U.S. feeder pig production economic costs and returns, all sizes of operation, 1972-87

Item	1972	1973	1974	1975	1976	1977	1978	1979		
		Dollars per cwt								
otal, cash receipts	44.45	67.28	58.40	80.83	65.65	68.49	87.61	65.95		
conomic (full ownership) costs:										
Variable cash expenses	26.39	43.58	48.04	44.78	44.17	43.40	44.12	49.59		
General farm overhead	1.42	1.50	1.67	1.83	1.85	2.06	2.82	2.40		
Taxes and insurance	1.02	1.05	1.10	1.18	1.20	1.36	1.47	1.7		
Capital replacement	5.81	6.52	4.99	9.17	9.47	10.19	11.26	13.30		
Operating capital	. 29	.78	.95	. 69	. 58	.60	.84	1.2		
Other nonland capital	3.24	3.42	3.72	4.07	4.39	4.20	4.08	4.0		
Land	.21	. 25	.37	. 44	. 50	. 56	. 59	. 6		
Unpaid labor	8.45	9.25	10.59	11.40	12.46	13.41	14.34	15.6		
Total, economic costs	46.83	66.36	71.43	73.57	74.62	75.78	79.52	88.6		
esidual returns to management and risk	-2.38	. 92	-13.04	7.27	-8.97	-7.29	8.09	-22.7		

Continued--

Table 60A--U.S. feeder pig production cash costs and returns, all sizes of operation, 1972-87--continued

Item	1980	1981	1982	1983	1984	1985	1986	198
				Dolla	rs per c	wt		
Cash receipts:								
Feeder pigs					66.60		76.77	78.
Cull sows	6.85	7.62	9.56	7.78	8.04	7.25	8.39	8.
Total		68.49				73.73		
**************************************								
Cash expenses:								
Feed								
Grain					24.00			
Protein supplements	17.86	18.77	17.59	18.63	17.40	14.61	15.72	16.
Pasture	. 22	. 22	. 22	.19	. 17	.15	. 13	
Total feed costs	39.62	42.19	36.54	42.61	41.57	34.26	30.99	28.
Other								
Veterinary and medicine	1.62	1.55	1.62	1.67	1.53	1.47	1.50	1.
Livestock hauling	. 16	.18			. 20		.20	
Marketing	1.35	1.49	1.59	1.48	1.62	1.51	1.63	1.
Bedding	.30	. 46	. 38	. 39	.37	. 37	.37	
Custom feed mixing	1.40	1.46	1.46	1.44	1.33	1.24	1.19	1.
The state of the s	6.61	7.68	7.73	7.49	6.80	6.69	6.42	6.
	4.31	4.72	4.93	5.14	4.78	4.82	4.67	4.
Hired labor	1.66	1.87	1.86	2.05	2.62	2.90	2.86	3.
Manure credit	14	15	15	15	16	15	14	
Total, variable cash expenses	56.89	61.45	56.15	62.32	60.66	53.31	49.69	47.
eneral farm overhead	2.42	3.16	4.17	4.15	4.85	4.79	5.96	6.
axes and insurance	1.63	1.77	1.89	2.10	1.88	1.88	1.87	1.
nterest	7.00	9.17	14.56	8.43	10.84	10.84	10.22	6.
Total, fixed cash expenses	11.05	14.10	20.62	14.68	17.57	17.51	18.05	14.
Total, cash expenses	67.94	75.55	76.77	77.00	78.23	70.82	67.74	62.
ash receipts less cash expenses	-9.81	-7.06	18.46	-7.49	-3.59	2.91	17.42	24.
apital replacement	10.77	11.82	12.36	13.35	11.90	11.90	11.64	11.
Total, cash expenses and replacement								
et cash receipts	-20 58	-18.88	6.10	-20.84	-15.49	-8.99	5.78	12.

Item	1980	1981	1982	1983	1984	1985	1986	1987	
	Dollars per cwt								
Total, cash receipts	58.13	68.49	95.23	69.51	74.64	73.73	85.16	86.79	
Economic (full ownership) costs:									
Variable cash expenses	56.89	61.45	56.15	62.32	60.66	53.31	49.69	47.51	
General farm overhead	2.42	3.16	4.17	4.15	4.85	4.79	5.96	6.94	
Taxes and insurance	1.63	1.77	1.89	2.10	1.88	1.88	1.87	1.88	
Capital replacement	10.77	11.82	12.36	13.35	11.90	11.90	11.64	11.68	
Operating capital	1.62	2.12	1.56	1.36	1.49	1.02	.67	.72	
Other nonland capital	3.96	3.74	3.66	3.44	2.74	2.74	2.48	2.77	
Land	.75	.77	. 72	. 64	. 50	. 41	.30	. 32	
Unpaid labor	16.89	18.37	16.86	17.95	16.79	16.79	16.62	17.23	
Total, economic costs	94.93	103.19	97.36	105.32	100.80	92.84	89.23	89.05	
Residual returns to management and risk	-36.80	-34.70	-2.13	-35.81	-26.16	-19.11	-4.07	-2.26	

Table 61A--U.S. feeder pig finishing production cash costs and returns, all sizes of operation, 1972-87

Item	1972	1973	1974	1975	1976	1977	1978	1979
				Dollar	s per c	wt_		
Cash receipts:								
Slaughter hogs	26.02	39.29	34,26	47.14	47.98	40.07	47.82	46.92
Total					47.98			
Cash expenses:								
Feeders								
Feeder pigs	10 34	13.95	9.81	17 48	23.71	13 82	19 31	23 18
Feed	10.54	13.33	3.01	17.40	25.71	15.02	15.51	20.10
Grain	6 66	10 75	16 61	15.36	12.79	11 55	10 47	11.33
Protein supplements		12.21		7.38			8.08	9.04
Pasture	.01				.01		.01	
Total feed costs	12.28				19.78		18.56	
Other	12.20	22.07	25.00	22.75	15,76	20.00	10.50	20.00
Veterinary and medicine	. 22	. 23	.26	.35	.34	.34	.35	.37
Livestock hauling	. 05	. 06	.07	. 08		.09	.09	
Marketing		.25			.35			
Bedding	.03			.06				
Custom feed mixing	.06							.09
Fuel, lube, and electricity	.39			. 64				
Machinery and building repairs	. 70	74	.82					
Hired labor	.17		.21	. 23	.25		.29	.32
		07			11			
Total, variable cash expenses	24.41			42.77			40.85	
General farm overhead	. 86	.91	1.01	1.10	1.39	1.24	1.58	1.76
Taxes and insurance	1.28							
Interest	1.74						4.50	4.94
Total, fixed cash expenses	3.88			5.44			8.01	9.88
Total, cash expenses	28.29	43.09	42.49	48.20	53.69	43.89	48.86	56.82
Cash receipts less cash expenses	-2.27	-3.80	-8.23	-1.06	-5.71	-3.82	-1.04	-9.90
Capital replacement								
Total, cash expenses and replacement								
Net cash returns	-3.68	-5.39	-9.44	-3.29	-8.36	-6.30	-3.51	-12.81

Table 61B--U.S. feeder pig finishing production economic costs and returns, all sizes of operation, 1972-87

Item	1972	1973	1974	1975	1976	1977	1978	1979			
			Dollars per cwt								
Total, cash receipts	26.02	39.29	34.26	47.14	47.98	40.07	47.82	46.92			
Economic (full ownership) costs:											
Variable cash expenses	24.41	38.83	37.69	42.77	46.21	37.24	40.85	46.94			
General farm overhead	. 86	. 91	1.01	1.10	1.39	1.24	1.58	1.76			
Taxes and insurance	1.28	1.32	1.39	1.49	1.54	1.71	1.93	3.18			
Capital replacement	1.41	1.59	1.22	2.23	2.65	2.48	2.47	2.91			
Operating capital	. 18	.46	. 50	.44	.41	.34	. 52	.78			
Other nonland capital	. 75	.79	.86	.94	1.02	. 97	. 94	. 94			
Land	.01	. 02	. 02	.03	. 03	. 04	.04	.04			
Unpaid labor	.67	.73	. 84	. 90	. 99	1.06	1.14	1.24			
Total, economic costs	29.57	44.64	43.52	49.89	54.24	45.08	49.46	57.80			
Residual returns to management and risk	-3.55	-5.36	-9.26	-2.75	-6.26	-5.01	-1.64	-10.88			

Continued --

Table 61A--U.S. feeder pig finishing production cash costs and returns, all sizes of operation, 1972-87--continued

Item	1980	1981	1982	1983	1984	1985	1986	1987
				Dollars per cwt				
Cash receipts:								
Slaughter hogs Total	39.30				48.42		50.49	
								50.98
Cash expenses:								
Feeders-								
Feeder pigs Feed	13.16	17.54	22.40	20.05	17.33	18.76	19.94	20.44
Grain	11.65	12.59	10.19	12.97	13.21	10.79	8.37	6.67
Protein supplements	6.55	6.89	6.38	6.81	6.31	5.17	5.58	5.87
Pasture	.02	.02	.02	. 02	.02	.01	.01	.01
Total feed costs	18.22	19.50	16.59	19.80	19.54			12.55
Other								
Veterinary and medicine	. 40	.43	. 44	.46	.46	.46	. 47	. 48
Livestock hauling	.12	. 14	.15	.16	.16	.16	.16	. 16
Marketing	.36	.39	.42	.39	.42	. 39	. 42	. 43
Bedding	. 08	.11	.10	.10	.10	.10	.10	. 10
Custom feed mixing Fuel, lube, and electricity	. 10	. 10	.09	.09	.08	.07	.06	.07
Machinery and building repairs	1.38	1.50	1.49	1.38	1.15			. 98
Hired labor	.34	.38	.36	.39	.40	1.63	1.57	1.60
Manure credit	14	15	16	15	16			13
Total, variable cash expenses	35.37			44.33	41.06			37.11
								0.,11
General farm overhead	1.68	2.08	2.68	1.99	2.74	2.44	3.53	4.08
Taxes and insurance	.32	.36	.39	.42	.40	. 43	.46	. 47
Interest	4.63	5.90	8.27		7.03	5.45	6.06	3.57
Total, fixed cash expenses	6.63	8.34	11.34	8.14	10.17	8.32	10.05	8.12
Total, cash expenses	42.00	49.78	54.81	52.47	51.23	47.18	47.99	45.23
Cash receipts less cash expenses	-2.70	-5.92	-0.28	-5.13	-2.81	-2.57	2.50	5.75
Capital replacement	2.51	2.77	2.92	3.04	2.93	3.00	2.95	2.99
Total, cash expenses and replacement	44.51	52.55	57.73	55.51	54.16	50.18	50.94	48.22
Net cash returns	-5.21	-8.69	-3.20	-8.17	-5.74	-5.57	45	2.76
Table 61BU.S. feeder pig finishing pro operation, 1972-87continued		econom	ic cost	s and r	eturns,	all si	zes of	
Item	1980	1981	1982	1983	1984	1985	1986	1987
					rs per			
Total, cash receipts							50.49	
Economic (full ownership) costs:					======			
Variable cash expenses	35.37	41.44	43.47	44.33	41.06	38.86	37.94	37.11
General farm overhead	1.68	2.08	2.68	1.99	2.74	2.44	3.53	4.08
Taxes and insurance	.32	.36	. 39	.42	. 40	. 43	.46	. 47
Capital replacement	2.51							
Operating capital		.95						. 37
Other nonland capital	. 92		. 85			. 60		. 65
Land	.05		.05		.03			.02
Unpaid labor		1.46						
Total, economic costs	42.86	49.98	52.50	52.69	49.83	47.23	47.15	47.08
Residual returns to management and risk	-3.56	-6.12	2.03	-5.35	-1.41	-2.62	3.34	3.90

Table 62A--U.S. sheep production cash costs and returns, all sizes of operation, 1972-87

Mool   2.60	Item	1972	1973	1974	1975	1976	1977	1978	1979
Slaughter lambs									
Feeder Lembs		0.85	12 00	13 00	14 53	15 65	17 46	10 01	21 0
Cull eves									
Mool   2.60									5.5
Mool payment									6.4
Unahorn lamb payment									2.1
ash expenses:	• •								. 7
ash expenses:  Feed Gratin	Total	24.66	30.03	29.32	32.26	35.78	41.40	51.02	54.2
Feed- Orarin  1.11 1.79 2.77 2.56 2.36 1.92 1.99 2.7 Protein supplements  1.76 3.82 2.82 2.91 2.31 2.93 2.83 2.85 3.1 Salt and minerals  1.31 1.4 1.5 1.7 1.9 2.1 2.3 Hay  2.24 2.55 2.99 3.74 3.89 2.89 2.69 2.69 2.69 2.69 2.69 2.7 Pasture  1.81 2.07 2.14 2.14 2.19 2.18 2.11 2.31 2.83 2.85 3.1 Hublic grazing  1.25 1.31 1.41 1.5 1.7 1.9 2.1 2.18 2.14 2.19 2.18 2.14 2.19 2.18 2.14 2.19 2.18 2.18 2.18 2.18 2.18 2.18 2.18 2.18				*******		****		.======	
Protein supplements									
Salt and minerals	Grain	1.11	1.79	2.77	2.56	2.36	1.92	1.99	2.2
Pasture	Protein supplements	1.76	3.82	2.82		2.31	2.83	2.85	3.2
Pasture	Salt and minerals	. 13	. 14	. 15	. 17	.19	.21	. 23	. 2
Public grazing	Hay	2.24	2.55	2.99	3.74	3.89	2.89	2.69	2.4
Crop residue	Pasture	1.81	2.07	2.14	2.14	2.19	2.18	2.41	2.7
Total feed costs ther-  Veterinary and medicine  .60 .62 .59 .62 .59 .61 .66  Livestock hauling .66 .73 .66 .72 .66 .71 .76 .6  Livestock hauling .66 .73 .66 .72 .66 .71 .76 .6  Ram death loss .73 .66 .72 .66 .71 .76 .6  Ram death loss .73 .66 .62 .69 .72 .70 .70 .70 .70 .70 .70 .70 .70 .70 .70	Public grazing	1.25	1.31	1.41	1.41	1.65	. 73	. 73	. 9
Therity and medicine	Crop residue	.05	.05	.05	.05	.05	.05		.0
Veterinary and medicine		8.34	11.74	12.34	12.39	12.64	10.82	10.95	11.8
Livestock hauling		.60	62	59	.62	59	.61	.66	. 7
Marketing	The state of the s								. 8
Ram death loss	The state of the s								. 1
Shearing and tagging   58   6.2   6.8   7.5   7.9   8.4   9.0   5.5									. 3
Fuel, lube, and electricity									.9
Machinery and building repairs   2.57   2.62   2.82   2.98   2.87   1.22   1.32   1.32   1.48									1.2
Bired labor         2.72         2.98         3.41         3.67         4.15         4.32         4.62         5.7           Miscellaneous         .44         4.7         .52         .57         .60         .64         .69            Total, variable cash expenses         16.70         20.60         22.07         22.84         23.49         20.44         21.31         23.62           emeral farm overhead         .98         1.33         1.19         1.33         1.57         1.82         2.40         2.6           axes and insurance         .90         .92         .97         1.04         1.26         1.19         1.20         1.4           Total, fixed cash expenses         2.93         3.78         3.47         3.82         5.03         5.35         7.57         9.8           Total, cash expenses         19.63         24.38         25.54         26.66         28.52         25.79         28.87         33.4           ash receipts less cash expenses         5.03         5.64         3.78         5.60         7.26         15.61         22.14         20.5           apital replacement         21.82         26.70         28.06         29.42         31.42 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1.4</td></th<>									1.4
Miscellaneous Total, variable cash expenses 16.70 20.60 22.07 22.84 23.49 20.44 21.31 23.5  eneral farm overhead 98 1.33 1.19 1.33 1.57 1.82 2.40 2.8  axes and insurance 90 .92 .97 1.04 1.26 1.19 1.20 1.4  nterest 1.05 1.52 1.31 1.46 2.20 2.33 3.96 5.5  Total, fixed cash expenses 2.93 3.78 3.47 3.82 5.03 5.35 7.57 9.8  Total, cash expenses 19.63 24.38 25.54 26.66 28.52 25.79 28.87 33.4  ash receipts less cash expenses 5.03 5.64 3.78 5.60 7.26 15.61 22.14 20.8  apital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.8  Total, cash expenses and replacement 21.82 26.70 28.06 29.42 31.42 28.64 32.76 38.3  et cash receipts 2.84 3.33 1.26 2.84 4.36 12.76 18.26 15.6  Continued able 628U.S. sheep production economic costs and returns, all sizes of operation, 1972-87  Item 1972 1973 1974 1975 1976 1977 1978 1976  Dollars per ewe  otal, cash receipts 24.66 30.03 29.32 32.26 35.78 41.40 51.02 54.2  conomic (full ownership) costs:  Variable cash expenses 16.70 20.60 22.07 22.84 23.49 20.44 21.31 23.9  General farm overhead 98 1.33 1.19 1.33 1.57 1.82 2.40 2.6  Taxes and insurance 90 .92 .97 1.04 1.26 1.19 1.20 1.4  Capital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.6  Operating capital 37 .74 .87 .70 .62 .56 .81 1.1  Other nonland capital 1.58 1.67 1.82 1.99 2.09 2.05 2.81 3.5  Unpaid labor 4.12 4.62 5.42 5.75 6.42 6.58 6.75 7.5  Total, economic costs 29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.7									5.0
Total, variable cash expenses 16.70 20.60 22.07 22.84 23.49 20.44 21.31 23.55 eneral farm overhead									.7
See and insurance   .90   .92   .97   1.04   1.26   1.19   1.20   1.40									23.5
See and insurance   .90   .92   .97   1.04   1.26   1.19   1.20   1.40	eneral farm overhead	.98	1.33	1.19	1.33	1.57	1.82	2.40	2.8
Total, fixed cash expenses   1.05   1.52   1.31   1.46   2.20   2.33   3.96   5.55									1.4
Total, fixed cash expenses 2.93 3.78 3.47 3.82 5.03 5.35 7.57 9.5  Total, cash expenses 19.63 24.38 25.54 26.66 28.52 25.79 28.87 33.4  ash receipts less cash expenses 5.03 5.64 3.78 5.60 7.26 15.61 22.14 20.6  apital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.5  Total, cash expenses and replacement 21.82 26.70 28.06 29.42 31.42 28.64 32.76 38.3  et cash receipts 2.84 3.33 1.26 2.84 4.36 12.76 18.26 15.6  Continued able 62BU.S. sheep production economic costs and returns, all sizes of operation, 1972-87  Item 1972 1973 1974 1975 1976 1977 1978 1976  Dollars per ewe  otal, cash receipts 24.66 30.03 29.32 32.26 35.78 41.40 51.02 54.2  conomic (full ownership) costs:  Variable cash expenses 16.70 20.60 22.07 22.84 23.49 20.44 21.31 23.5  General farm overhead 98 1.33 1.19 1.33 1.57 1.82 2.40 2.8  Taxes and insurance 90 92 97 1.04 1.26 1.19 1.20 1.4  Capital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.5  Operating capital 37 74 .87 .70 .62 .56 .81 1.5  Other nonland capital 1.58 1.67 1.82 1.99 2.09 2.05 2.81 3.5  Land 3.10 3.76 4.86 5.59 6.07 6.44 6.87 7.5  Total, economic costs 29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.7									5.5
ash receipts less cash expenses 5.03 5.64 3.78 5.60 7.26 15.61 22.14 20.8 apital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.5 Total, cash expenses and replacement 21.82 26.70 28.06 29.42 31.42 28.64 32.76 38.3 et cash receipts 2.84 3.33 1.26 2.84 4.36 12.76 18.26 15.6			3.78			5.03		7.57	9.9
apital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.9  Total, cash expenses and replacement 21.82 26.70 28.06 29.42 31.42 28.64 32.76 38.3  et cash receipts 2.84 3.33 1.26 2.84 4.36 12.76 18.26 15.9  Continued able 62BU.S. sheep production economic costs and returns, all sizes of operation, 1972-87  Item 1972 1973 1974 1975 1976 1977 1978 1979  Dollars per ewe  otal, cash receipts 24.66 30.03 29.32 32.26 35.78 41.40 51.02 54.2  conomic (full ownership) costs:  Variable cash expenses 16.70 20.60 22.07 22.84 23.49 20.44 21.31 23.5  General farm overhead .98 1.33 1.19 1.33 1.57 1.82 2.40 2.8  Taxes and insurance .90 .92 .97 1.04 1.26 1.19 1.20 1.4  Capital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.6  Operating capital .37 .74 .87 .70 .62 .56 .81 1.1  Other nonland capital 1.58 1.67 1.82 1.99 2.09 2.05 2.81 3.5  Land 3.10 3.76 4.86 5.59 6.07 6.44 6.87 7.5  Total, economic costs 29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.3	Total, cash expenses	19.63	24.38	25.54	26.66	28.52	25.79	28.87	33.4
apital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.9  Total, cash expenses and replacement 21.82 26.70 28.06 29.42 31.42 28.64 32.76 38.3  et cash receipts 2.84 3.33 1.26 2.84 4.36 12.76 18.26 15.9  Continued able 62BU.S. sheep production economic costs and returns, all sizes of operation, 1972-87  Item 1972 1973 1974 1975 1976 1977 1978 1979  Dollars per ewe  otal, cash receipts 24.66 30.03 29.32 32.26 35.78 41.40 51.02 54.2  conomic (full ownership) costs:  Variable cash expenses 16.70 20.60 22.07 22.84 23.49 20.44 21.31 23.5  General farm overhead .98 1.33 1.19 1.33 1.57 1.82 2.40 2.8  Taxes and insurance .90 .92 .97 1.04 1.26 1.19 1.20 1.4  Capital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.6  Operating capital .37 .74 .87 .70 .62 .56 .81 1.1  Other nonland capital 1.58 1.67 1.82 1.99 2.09 2.05 2.81 3.5  Land 3.10 3.76 4.86 5.59 6.07 6.44 6.87 7.5  Total, economic costs 29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.3	Cash receipts less cash expenses	5.03	5.64	3.78	5.60	7.26	15.61	22.14	20.8
Continued   Cont	Capital replacement	2.19	2.32	2.52	2.75	2.90	2.84	3.89	4.9
Continued  able 62BU.S. sheep production economic costs and returns, all sizes of operation, 1972-87    Item									
Item   1972	let cash receipts	2.84 	3.33	1,26	2.84	4.36	12.76	18.26	15.9
Dollars per ewe   Dollars per ewe	able 62BU.S. sheep production economic	c costs	and re	turns,	all siz	es of o	peratio		
Dollars per ewe           otal, cash receipts         24.66 30.03 29.32 32.26 35.78 41.40 51.02 54.2           conomic (full ownership) costs:         Variable cash expenses         16.70 20.60 22.07 22.84 23.49 20.44 21.31 23.5           General farm overhead         .98 1.33 1.19 1.33 1.57 1.82 2.40 2.8           Taxes and insurance         .90 .92 .97 1.04 1.26 1.19 1.20 1.4           Capital replacement         2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.9           Operating capital         .37 .74 .87 .70 .62 .56 .81 1.3           Other nonland capital         1.58 1.67 1.82 1.99 2.09 2.05 2.81 3.5           Land         3.10 3.76 4.86 5.59 6.07 6.44 6.87 7.9           Unpaid labor         4.12 4.62 5.42 5.75 6.42 6.58 6.75 7.3           Total, economic costs         29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.7									
otal, cash receipts       24.66 30.03 29.32 32.26 35.78 41.40 51.02 54.2         conomic (full ownership) costs:         Variable cash expenses       16.70 20.60 22.07 22.84 23.49 20.44 21.31 23.5         General farm overhead       .98 1.33 1.19 1.33 1.57 1.82 2.40 2.8         Taxes and insurance       .90 .92 .97 1.04 1.26 1.19 1.20 1.4         Capital replacement       2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.9         Operating capital       .37 .74 .87 .70 .62 .56 .81 1.1         Other nonland capital       1.58 1.67 1.82 1.99 2.09 2.05 2.81 3.5         Land       3.10 3.76 4.86 5.59 6.07 6.44 6.87 7.9         Unpaid labor       4.12 4.62 5.42 5.75 6.42 6.58 6.75 7.3         Total, economic costs       29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.7	Len	19/2	19/3		19/3		19//	19/0	19/9
Conomic (full ownership) costs:  Variable cash expenses 16.70 20.60 22.07 22.84 23.49 20.44 21.31 23.5  General farm overhead .98 1.33 1.19 1.33 1.57 1.82 2.40 2.8  Taxes and insurance .90 .92 .97 1.04 1.26 1.19 1.20 1.4  Capital replacement 2.19 2.32 2.52 2.75 2.90 2.84 3.89 4.9  Operating capital .37 .74 .87 .70 .62 .56 .81 1.1  Other nonland capital 1.58 1.67 1.82 1.99 2.09 2.05 2.81 3.5  Land 3.10 3.76 4.86 5.59 6.07 6.44 6.87 7.9  Unpaid labor 4.12 4.62 5.42 5.75 6.42 6.58 6.75 7.3  Total, economic costs 29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.7					Dollar	s per e	we		
conomic (full ownership) costs:         Variable cash expenses       16.70       20.60       22.07       22.84       23.49       20.44       21.31       23.5         General farm overhead       .98       1.33       1.19       1.33       1.57       1.82       2.40       2.8         Taxes and insurance       .90       .92       .97       1.04       1.26       1.19       1.20       1.4         Capital replacement       2.19       2.32       2.52       2.75       2.90       2.84       3.89       4.5         Operating capital       .37       .74       .87       .70       .62       .56       .81       1.3         Other nonland capital       1.58       1.67       1.82       1.99       2.09       2.05       2.81       3.5         Land       3.10       3.76       4.86       5.59       6.07       6.44       6.87       7.9         Unpaid labor       4.12       4.62       5.42       5.75       6.42       6.58       6.75       7.3         Total, economic costs       29.96       35.96       39.72       41.98       44.42       41.93       46.03       52.7									
Variable cash expenses       16.70       20.60       22.07       22.84       23.49       20.44       21.31       23.5         General farm overhead       .98       1.33       1.19       1.33       1.57       1.82       2.40       2.8         Taxes and insurance       .90       .92       .97       1.04       1.26       1.19       1.20       1.4         Capital replacement       2.19       2.32       2.52       2.75       2.90       2.84       3.89       4.8         Operating capital       .37       .74       .87       .70       .62       .56       .81       1.1         Other nonland capital       1.58       1.67       1.82       1.99       2.09       2.05       2.81       3.5         Land       3.10       3.76       4.86       5.59       6.07       6.44       6.87       7.9         Unpaid labor       4.12       4.62       5.42       5.75       6.42       6.58       6.75       7.3         Total, economic costs       29.96       35.96       39.72       41.98       44.42       41.93       46.03       52.7		******		******			8222===	======	
General farm overhead       .98       1.33       1.19       1.33       1.57       1.82       2.40       2.8         Taxes and insurance       .90       .92       .97       1.04       1.26       1.19       1.20       1.4         Capital replacement       2.19       2.32       2.52       2.75       2.90       2.84       3.89       4.8         Operating capital       .37       .74       .87       .70       .62       .56       .81       1.1         Other nonland capital       1.58       1.67       1.82       1.99       2.09       2.05       2.81       3.5         Land       3.10       3.76       4.86       5.59       6.07       6.44       6.87       7.9         Unpaid labor       4.12       4.62       5.42       5.75       6.42       6.58       6.75       7.3         Total, economic costs       29.96       35.96       39.72       41.98       44.42       41.93       46.03       52.7		16.70	20.60	22.07	22.84	23.49	20.44	21.31	23.5
Taxes and insurance         .90         .92         .97         1.04         1.26         1.19         1.20         1.4           Capital replacement         2.19         2.32         2.52         2.75         2.90         2.84         3.89         4.8           Operating capital         .37         .74         .87         .70         .62         .56         .81         1.5           Other nonland capital         1.58         1.67         1.82         1.99         2.09         2.05         2.81         3.5           Land         3.10         3.76         4.86         5.59         6.07         6.44         6.87         7.9           Unpaid labor         4.12         4.62         5.42         5.75         6.42         6.58         6.75         7.3           Total, economic costs         29.96         35.96         39.72         41.98         44.42         41.93         46.03         52.7									
Capital replacement       2.19       2.32       2.52       2.75       2.90       2.84       3.89       4.8         Operating capital       .37       .74       .87       .70       .62       .56       .81       1.1         Other nonland capital       1.58       1.67       1.82       1.99       2.09       2.05       2.81       3.5         Land       3.10       3.76       4.86       5.59       6.07       6.44       6.87       7.9         Unpaid labor       4.12       4.62       5.42       5.75       6.42       6.58       6.75       7.3         Total, economic costs       29.96       35.96       39.72       41.98       44.42       41.93       46.03       52.7									
Operating capital       .37       .74       .87       .70       .62       .56       .81       1.1         Other nonland capital       1.58       1.67       1.82       1.99       2.09       2.05       2.81       3.5         Land       3.10       3.76       4.86       5.59       6.07       6.44       6.87       7.5         Unpaid labor       4.12       4.62       5.42       5.75       6.42       6.58       6.75       7.3         Total, economic costs       29.96       35.96       39.72       41.98       44.42       41.93       46.03       52.7									
Other nonland capital       1.58       1.67       1.82       1.99       2.09       2.05       2.81       3.5         Land       3.10       3.76       4.86       5.59       6.07       6.44       6.87       7.8         Unpaid labor       4.12       4.62       5.42       5.75       6.42       6.58       6.75       7.3         Total, economic costs       29.96       35.96       39.72       41.98       44.42       41.93       46.03       52.7									
Land 3.10 3.76 4.86 5.59 6.07 6.44 6.87 7.50 Unpaid labor 4.12 4.62 5.42 5.75 6.42 6.58 6.75 7.30 Total, economic costs 29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.70									
Unpaid labor 4.12 4.62 5.42 5.75 6.42 6.58 6.75 7.3 Total, economic costs 29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.7	•								
Total, economic costs 29.96 35.96 39.72 41.98 44.42 41.93 46.03 52.7									
esidual returns to management and risk -5.30 -5.93 -10.40 -9.72 -8.6453 4.99 1.4	=								
	esidual returns to management and risk	-5.30	-5.93	-10.40	-9.72	-8.64	53	4.99	1.4
Continued								_	

Table 62A--U.S. sheep production cash costs and returns, all sizes of operation, 1972-87--continued

Item	1980	1981	1982	1983	1984	1985	1986	1987
•		~~~~		<u>Dollars per ewe</u>				
Cash receipts								
Slaughter lambs Feeder lambs	20.46	16.03	16.60	16.39	19.93	21.58	20.84	22.6
Cull ewes	15.74	13.30	13.49	12.30	15.02	18.48	18.76	23.1
Wool	3.55	3.43	3.05	2.17	3.20	6.06	5.97	6.6
Wool payment	6.55	7.45	6.28	6.72	8.81	6.84	7.34	10.0
Unshorn lamb payment	3.19	6.30	10.05	9.47	9.47	10.99	12.22	9.7
Total	.76 50.25	.88 47.39	1.50 50.97	48.61	1.81 58.24	2.21	2.42	
							67.55	
Cash expenses: Feed								
Grain	2 50	0 10	0 1/	2 20	0.50	0.01	1 60	1 0
	2.56	2.13	2.14	2.38	2.52	2.01	1.60	1.3
Protein supplements Salt and minerals	3.64	3.38	3.16	3.60	3.39	3.40	3.68	3.8
Hay	.32	.35	.37	.38	.38	.40	.40	. 4
Pasture	2.93	3.53	3.71	3.65	3.74	3.90	2.93	2.8
Public grazing	3.05	3.19		3.16	3.43	3.31	3.29	2.8
	1.13	1.11	.91	.70	.71	. 67	.68	. 6
Crop residue Total feed costs	.05	.06	.05	.06	.06	.05	.05	.0
total feed costs	13.68	13.75	13.45	13.93	14.23	13.74	12.63	12.0
	0.3	0.1	0.0	0.0	1 04	1 05	1 00	1 1
Veterinary and medicine Livestock hauling	.83 1.00	.91	.98 1.18	.99 1. <b>2</b> 0	1.04	1.05	1.08	1.1
Marketing							1.25	
Ram death loss	.22	. 24	.26	.27	. 28	.29	.29	. 3
	.33	.31	.29	. 28	. 27	. 27	.27	. 3
Shearing and tagging	1.06	1.14	1.18	1.21	1.23	1.24	1.30	1.2
Fuel, lube, and electricity	1.75	1.98	1.93	1.82	1.49	1.53	1.12	1.1
Machinery and building repairs Hired labor	1.59	1.74	2.19	2.29	2.26	2.39	2.30	2.3
	5.44	5.83	6.05	6.22	6.34	6.49	6.78	6.5
Miscellaneous	. 87	.96	1.02	1.04	1.08	1.12	1.15	1.1
Total, variable cash expenses	26.77	27.98	28.53	29.25	29.47	29.40	28.17	27.4
General farm overhead	3.06	3.20	4.47	2.86	3.74	3.25	3.38	4.4
Caxes and insurance	1.55	1.57	1.80	1.82	1.70	1.82	2.38	2.7
Interest	5.84	6.69	6.55	5.32	5.99	6.87	7.43	6.6
Total, fixed cash expenses	10.45	11.47	12.82	10.00	11.43	11.94	13.19	13.9
Total, cash expenses	37.22	39.45	41.35	39.25	40.90	41.34	41.36	41.3
Cash receipts less cash expenses	13.03	7.94	9.62	9.36	17.34	24.82	26.19	32.9
Capital replacement	5.12	5.69	6.58	6.95	7.38	7.61	7.53	7.8
Total, cash expenses and replacement	42.34	45.14	47.93	46.20	48.28	48.95	48.89	49.1
let cash receipts	7.91	2.25	3.04	2.41	9.96	17.21	18.66	25.1
Table 62BU.S. sheep production economi 1972-87continued	c costs	and re	turns,	all siz	es of o	peratio	on,	
	1980	1981	1982			1985		
					s per e			
Cotal, cash receipts	50.25	47.39	50.97	48.61	58.24	66.16	67.55	74.2
							======	
conomic (full ownership) costs:	26 33	07.00	20.50	20.05	20 17	00 10	20 17	0.7
Variable cash expenses			28.53			29.40		
General farm overhead	3.06		4.47	2.86				4.4
Taxes and insurance	1.55		1.80					
Capital replacement	5.12					7.61		
Operating capital	1.52		1.58				.76	
Other nonland capital	4.63		4.52				2.72	
Land	9.44		10.13					
Unpaid labor	6.40		7.14	7.33		7.77		
Total, economic costs	58.49	61.21	64.75	63.11	65.24	60.26	58.51	59.

Residual returns to management and risk -8.24 -13.82 -13.78 -14.50 -7.00 5.90 9.04 14.45

58.49 61.21 64.75 63.11 65.24 60.26 58.51 59.83

Total, economic costs

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## Which of the following statements are true?

True	False	
		Farming is the main activity in rural America.
	0	Most of our food comes from small family farms where the farmer is having a tough time making a decent living.
		America is losing the family farm.
		Most farmers today are either big corporations controlled by major companies, or poor and fighting to survive.

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